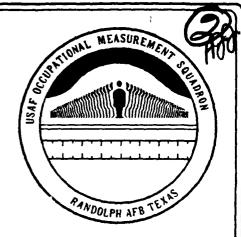


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UNITED STATES
AIR FORCE



OCCUPATIONAL SURVEY REPORT



AIRCREW EGRESS SYSTEMS CAREER LADDER

AFSC 454X2

AFPT 90-454-905

JUNE 1993

OCCUPATIONAL ANALYSIS PROGRAM
USAF OCCUPATIONAL MEASUREMENT SQUADRON
AIR TRAINING COMMAND
RANDOLPH AFB, TEXAS 78150-5000

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PREFACE

This report presents the results of a detailed Air Force Occupational Survey of the Aircrew Egress Systems career ladder (Air Force Specialty Code (AFSC) 454X2). Authority for conducting occupational surveys is contained in AFR 35-2. Computer products upon which this report is based are available for the use of operations and training officials.

The survey instrument was developed by Chief Master Sergeant Wendell L. Beaty, Inventory Development Specialist, with computer programming support furnished by Mrs Rebecca Hernandez. Ms Raquel A. Soliz provided administrative support. Mr Robert L. Alton, Occupational Analyst, analyzed the data and wrote the final report. This report has been reviewed and approved by Major Randall C. Agee, Chief, Airman Analysis Section, Occupational Analysis Flight, USAF Occupational Measurement Squadron (USAFOMS).

Copies of this report are distributed to Air Staff sections, major commands, and other interested training and management personnel. Additional copies are available upon request to the USAF Occupational Measurement Squadron, Attention: Chief, Occupational Analysis Flight (OMY), 1550 5th Street East, Randolph Air Force Base, Texas 78150-4449 (DSN 487-6623).

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Squadron

SUMMARY OF RESULTS

- 1. <u>Survey Coverage</u>: The Aircrew Egress Systems career ladder was surveyed to evaluate changes in the career ladder since implementation of Rivet Workforce and to obtain current task and equipment data for use in evaluating current training programs. Survey results are based on responses from 557 respondents (78 percent of the total assigned personnel selected for survey). All major using commands are well represented in the survey sample.
- 2. <u>Specialty Jobs</u>: Nine jobs were identified in the sample. Six of the jobs were directly involved in performing the technical duties and tasks pertaining to maintenance of the various aircrew egress systems. One job, FIRST-LINE SUPERVISION, reflected a combination of technical and supervisory task performance. The remaining two jobs were characterized by quality assurance and training activities.
- 3. <u>Career Ladder Progression</u>: Personnel at the 3- and 5-skill levels perform many tasks in common, and both groups spend the vast majority of their relative job time performing technical maintenance tasks. At the 7-skill level, although members still perform a substantial amount of routine day-to-day technical egress system maintenance, a shift toward supervisory functions is evident.
- 4. <u>AFR 39-1 Specialty Descriptions</u>: All descriptions accurately depict the nature of the respective jobs.
- 5. <u>Training Analysis</u>: The Specialty Training Standard (STS) is generally supported by survey data; however, there are a number of elements requiring review because of questionable 3-skill level proficiency coding. The Plan of Instruction (POI) has four units of instruction which are not supported by survey data. Both the STS and POI have a number of tasks not matched that require review for possible inclusion in the training documents.
- 6. <u>Implications</u>: Now that the Advanced Concept Ejection Seat (ACES II) has become the dominant aircrew egress system in the field, some adjustments in the STS and POI appear warranted.

OCCUPATIONAL SURVEY REPORT AIRCREW EGRESS SYSTEMS CAREER LADDER (AFSC 454X2)

INTRODUCTION

This is a report of an occupational survey of the Aircrew Egress Systems career ladder completed by the USAF Occupational Measurement Squadron. This survey was requested by HQ ATC/TTOA, Randolph AFB, Texas, to review the structure of the career field since Rivet Workforce changes were implemented. There is also a need to evaluate the impact of changes due to weapons systems additions, deletions, and shifts in dominant numbers. The last survey results pertaining to this career ladder were published in September 1984.

Background

As described in AFR 39-1 Specialty Descriptions dated April 1991, personnel in this career ladder are responsible for installing, inspecting, removing, repairing, and modifying aircrew egress systems and related aerospace ground equipment (AGE).

Primary entry into the career ladder is from Basic Military Training School (BMTS) through a Category A 7-week and 1-day formal training course now conducted at Sheppard AFB, Texas. Current ABR training includes instruction pertaining to principles of operation, removal, disassembly, inspection, repair, adjustment, assembly, and installation of aircrew egress systems and related AGE; ground safety practices; electrical, pneudraulic, ballistic, and rocket fundamentals; use of special tools, the technical order system, technical publications, maintenance data collection management, and man-hour reporting; and egress system inspection, maintenance, and operational checks. Entry into the career ladder currently requires an Armed Services Vocational Aptitude Battery (ASVAB) Mechanical score of 57.

SURVEY METHODOLOGY

Inventory Development

The data collection instrument for this occupational survey was USAF Job Inventory AFPT 90-454-905, dated November 1991. A tentative task list was prepared after reviewing pertinent career ladder publications and directives, tasks from the previous survey instrument, and data from the last Occupational Survey Report (OSR). The preliminary task list was refined and validated through personal interviews with 31 subject-matter experts (SMEs) (selected to cover a variety of major commands (MAJCOM) and major weapons systems) at the following operational bases:

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BASE

REASON FOR VISIT

Bergstrom AFB TX

F-4 aircraft egress systems; personnel deployed in support of Operation DESERT SHIELD/STORM

Carswell AFB TX

B-52 aircraft egress systems

Randolph AFB TX

Only base with USAF active duty AFSC 454X2 personnel maintaining egress systems on T-37 and T-38 aircraft (other bases use contract maintenance)

Dyess AFB TX

B-1 aircraft egress systems

Cannon AFB NM

F-111 aircraft module egress

systems

Nellis AFB NV

A-10, F-15, and F-16 aircraft

egress systems

Tonopah Weapons Test Range NV

F-117 aircraft egress systems

Edwards AFB CA

Wide variety of egress systems with more in-depth and unique maintenance tasks performed

Beale AFB CA

U-2 and TR-1 aircraft egress systems

The resulting job inventory contained a comprehensive listing of 594 tasks grouped under 13 duty headings and a background section requesting such information as grade, duty title, work schedules, type of aircraft egress systems maintained, type of AGE used, and special tools or equipment used or operated.

Survey Administration

From April through October 1992, Military Personnel Flights (MPF) at operational units worldwide administered the inventory to military job incumbents holding DAFSCs 45432, 45452 and 45472. Job incumbents were selected from a computer-generated mailing list obtained from personnel data tapes maintained by the Armstrong Laboratory/Human Resources Directorate (AL/HRD).

Each individual who completed the inventory first completed an identification and biographical information section and then checked each task performed in his or her current job. After checking all tasks performed, each member then rated each of these tasks on a 9-point scale, showing relative time spent on the task, as compared to all other tasks checked. The ratings

ranged from 1 (very small amount time spent) through 5 (about average time spent) to 9 (very large amount spent).

To determine relative time spent for each task checked by a respondent, all of the incumbent's ratings are assumed to account for 100 percent of his or her time spent on the job and are summed. Each task rating is then divided by the total task ratings and multiplied by 100 to provide a relative percentage of time for each task. This procedure provides a basis for comparing tasks in terms of both percent members performing and average percent time spent.

Survey Sample

Personnel were selected to participate in this survey so as to ensure an accurate representation across major commands (MAJCOM) and military paygrade groups. All eligible DAFSC 45432, 45452, and 45472 personnel were mailed survey booklets. Table 1 reflects the percentage distribution, by MAJCOM, of assigned AFSC 454X2 personnel as of March 1992. The 557 respondents in the final sample represent 68 percent of the total assigned personnel and 78 percent of the total personnel surveyed. Table 2 reflects the paygrade distribution for these AFSC 454X2 personnel. As reflected in these tables, the survey sample is an excellent representation of the career ladder population.

Task Factor Administration

While most participants in the survey process completed a USAF Job Inventory, selected senior DAFSC 454X2 personnel were asked to complete booklets rendering judgements on task training emphasis (TE) or task difficulty (TD). The TE and TD booklets were processed separately from the job inventories. The information gained from these task factor data is used in various analyses and is a valuable part of the training decision process.

Task Difficulty (TD). Each individual completing a TD booklet was asked to rate all of the tasks on a 9-point scale (from extremely low to extremely high) as to the relative difficulty of each task in the inventory. Difficulty is defined as the length of time required by the average incumbent to learn to do the task. Task difficulty data were independently collected from 51 7-skill level personnel stationed worldwide. Interrater reliability was determined to be acceptable, which reflects a satisfactory agreement among raters. Ratings were standardized so tasks have an average difficulty of 5.00, with a standard deviation of 1.00. The resulting data yield essentially a rank ordering of tasks indicating the degree of difficulty for each task in the inventory.

Training Emphasis (TE). Individuals completing TE booklets were asked to rate tasks on a 10-point scale (from no training required to extremely high amount of training required). TE is a rating of which tasks require structured training for first-enlistment personnel. Structured training is

TABLE 1
COMMAND DISTRIBUTION OF 454X2 PERSONNEL

COMMAND	PERCENT OF ASSIGNED*	PERCENT OF SAMPLE
ACC	64	67
USAFE	14	12
PACAF	9	9
AFMC	7	7
ATC	6	5
TOTAL	100	100

Total Assigned* - 823
Total Surveyed** - 717
Total in Survey Sample - 557
Percent of Assigned in Sample - 68%
Percent of Surveyed in Sample - 78%

TABLE 2
PAYGRADE DISTRIBUTION OF SURVEY SAMPLE

GRADE	PERCENT OF ASSIGNED*	PERCENT OF SAMPLE
AIRMAN	14	14
E-4	26	25
E-5	31	32
E-6	19	19
E-7	10	10

^{*} Assigned strength as of March 1992

^{*} Assigned strength as of March 1992

^{**} Excludes personnel in PCS, student, or hospital status, or less than 6 weeks on the job

defined as training provided at resident technical schools, field training detachments (FTD), mobile training teams (MTT), formal QJT, or any other organized training method. TE data were independently collected from 51 experienced 7-skill level personnel stationed worldwide. The interrater reliability for these raters was acceptable, indicating there was satisfactory agreement arong raters as to which tasks required some form of structured training and which did not. In this specialty, tasks have an average TE rating of 1.62 and a standard deviation of 1.35; tasks considered high in TE have ratings of 2.97 and above. As was discussed in the <u>Task Difficulty (TD)</u> section, TE rating data may also be used to rank order tasks indicating those tasks which senior NCOs in the field consider the most important for the first-term airman to know.

When used in conjunction with the primary criterion of percent members performing, TD and TE ratings can provide insight into first-enlistment personnel training requirements. Such insights may suggest a need for lengthening or shortening portions of instruction supporting entry-level jobs.

SPECIALTY JOBS (Career Ladder Structure)

A USAF Occupational Analysis begins with an examination of the career ladder structure. The structure of jobs within the Aircrew Egress Systems career ladder was examined on the basis of similarity of tasks performed and the percent of time spent ratings provided by job incumbents, independent of other specialty background factors.

Each individual in the sample performs a set of tasks called a job. For the purpose of organizing individual jobs into similar units of work, an automated job clustering program is used. This hierarchical grouping program is a basic part of the Comprehensive Occupational Data Analysis Program (CODAP) system for job analysis. Each individual job description (all the tasks performed by that individual and the relative amount of time spent on those tasks) in the sample is compared to every other job description in terms of tasks performed and the relative amount of time spent on each task in the job inventory. The automated system is designed to locate the two job descriptions with the most similar tasks and percent time ratings and combine them to form a composite job description. In successive stages, new members are added to initial groups, or new groups are formed based on the similarity of tasks performed and similar time ratings in the individual job descriptions.

The basic identifying group used in the hierarchical job structuring process is the <u>Job</u>. When there are variations in the combinations of tasks and time by sample respondents, some number of different jobs are identified. The resulting job structure information (these varying jobs within the career ladder) can be used to evaluate the accuracy of career ladder documents (AFR

39-1 Specialty Descriptions and Specialty Training Standards) and to gain a better understanding of current utilization patterns. The above terminology will be used in the discussion of the AFSC 454X2 career ladder structure.

Overview of Specialty Jobs

Structure analysis identified nine jobs within the survey sample. Based on task similarity and relative time spent, the division of jobs performed by DAFSC 454X2 personnel is illustrated in Figure 1, and a listing of those jobs is provided below. The stage (ST) or group (GP) number shown beside each title is a reference to computer-printed information; the number of personnel in each stage or group (N) is also shown.

- I. ADVANCED CONCEPT EJECTION SEAT (ACES II) EGRESS SYSTEMS MAINTENANCE (GP0035, N=291)
- II. F-4 EGRESS SYSTEM MAINTENANCE (STOC79, N=36)
- III. B-52 EGRESS SYSTEM MAINTENANCE (GP0029, N=30)
- IV. U-2/TR-1 EGRESS SYSTEMS MAINTENANCE (ST0118, N=9)
- V. T/A-37 AND T-38 EGRESS SYSTEMS MAINTENANCE (ST0128, N=5)
- VI. F-111 MODULE EGRESS SYSTEM MAINTENANCE (ST0049, N=27)
- VII. FIRST-LINE SUPERVISION (ST0064, N=100)
- VIII. QUALITY ASSURANCE (ST0058, N=6)
 - IX. TRAINING (ST0027, N=6)

The respondents forming these stages and groups account for 92 percent of the survey sample. The remaining 8 percent were performing tasks or series of tasks which did not group with any of the defined jobs. Job titles given by respondents which were representative of these personnel include Weapons Systems Controller, Training Development Analyst, Program Monitor, CAMS Instructor, Squadron Mobility Officer, and Command Functional Manager.

Group Descriptions

The following paragraphs contain brief descriptions of the jobs identified through the career ladder structure analysis. Table 3 presents the relative time spent on duties by members of these Specialty Jobs. Selected background data for these jobs are provided in Table 4. Representative tasks for all the stages and groups are contained in Appendix A.

AFSC 454X2 SPECIALTY JOBS (N= 557)

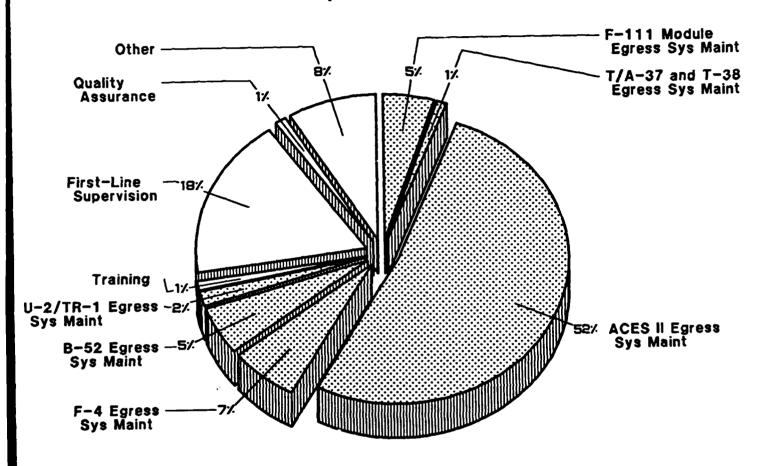


Figure 1

TABLE 3

RELATIVE PERCENT TIME SPENT ON DUTIES BY SPECIALTY JOBS

		ACES II	F-4	8-52	U-2/TR-1	T/A37/T38
		EGRESS	EGRESS	EGRESS	EGRESS	EGRESS
3	DUTIES	SYS MAIN! (N=291)	SYS MAIN! (N=36)	SYS MAIN! (N=30)	SYS MAIR (N=9)	(N=5)
		(,	,		,
<	ORGANIZING AND PLANNING	7	7	7	7	77
8	DIRECTING AND IMPLEMENTING	m	m	4	က	4
ပ	INSPECTING AND EVALUATING	7	2	Н	2	2
0	TRAINING	2	(V)	2	7	က
w	PERFORMING GENERAL ADMINISTRATIVE FUNCTIONS	13	თ	17	50	თ
L.	PERFORMING GENERAL AIRCRAFT MAINTENANCE ACTIVITIES	1	7	1	*	*
ပ	PERFORMING GENERAL AIRCREW EGRESS MAINTENANCE ACTIVITIES	46	39	48	72	52
x	MAINTAINING ADVANCED CONCEPT EJECTION SEAT (ACES II) SYSTEMS	30	15	0	0	0
 	MAINTAINING F-4 EGRESS SYSTEMS	*	24	*	0	0
2	MAINTAINING F-111 MODULE EGRESS SYSTEMS	,1	*	0	0	0
¥	MAINTAINING B-52 EGRESS SYSTEMS	*	*	24	0	0
ب	MAINTAINING T-38 EGRESS SYSTEMS	*	2	1	0	11
Σ	MAINTAINING T-37 OR A-37 EGRESS SYSTEMS	*		*	0	13

* Less than .5 percent

TABLE 3 (CONTINUED)

RELATIVE PERCENT TIME SPENT ON DUTIES BY SPECIALTY JOBS

3	DUTIES	F-111 MODULE EGRESS SYS MAINTENANCE (N=27)	FIRST-LINE SUPERVISION (N=100)	QUALITY ASSURANCE (N=6)	TRAINING (N=6)
<	ORGANIZING AND PLANNING	S	6	4	9
œ	DIRECTING AND IMPLEMENTING	S	æ	4	17
ပ	INSPECTING AND EVALUATING	ß	10	12	9
0	TRAINING	Ŋ	9	9	43
ш	PERFORMING GENERAL ADMINISTRATIVE FUNCTIONS	17	23	15	27
L	PERFORMING GENERAL AIRCRAFT MAINTENANCE ACTIVITIES	*	*	0	0
g	PERFORMING GENERAL AIRCREW EGRESS MAINTENANCE ACTIVITIES	23	30	37	7
Ŧ	MAINTAINING ADVANCED CONCEPT EJECTION SEAT (ACES II) SYSTEMS	*	11	19	0
—	MAINTAINING F-4 EGRESS SYSTEMS	0	*	1	0
ت.	MAINTAINING F-111 MODULE EGRESS SYSTEMS	40	*	0	0
¥	MAINTAINING B-52 EGRESS SYSTEMS	0	က	*	0
_	MAINTAINING T-38 EGRESS SYSTEMS	*	*		0
Σ	MAINTAINING T-37 OR A-37 EGRESS SYSTEMS	0	*		Э

* Less than .5 percent

TABLE 4
SELECTED BACKGROUND DATA FOR SPECIALTY JOBS

	ACES II EGRESS SYS MAINT	F-4 EGRESS SYS MAINT	B-52 EGRESS SYS MAINT	U-2/TR-1 EGRESS SYS MAINT	T/A37/T38 EGRESS SYS MAINT
NUMBER IN GROUP	291	36	30	6	Ŋ
PERCENT OF SAMPLE	52%	7%	5%	2%	98
PERCENT IN CONUS	76%	61%	100%	67%	100%
DAFSC DISTRIBUTION:					
45432	%	%	30%	%0	20%
45452 45472	500 34% 34%	50% 47%	47 23%	5 4 4 8 8 8	4 4 % %
PREDOMINANT GRADE(S)	E-4/E-5	E-5	E-5/E-4	E-4	E-4
AVERAGE MONTHS IN CAREER FIELD	93	111	75	26	83
AVERAGE MONTHS IN SERVICE	86	120	82	66	91
PERCENT IN FIRST ENLISTMENT	24%	% 6	33%	11%	20%
PERCENT SUPERVISING	52%	26%	33%	33%	40%
AVERAGE NUMBER OF TASKS PERFORMED	133	218	82	84	129

TABLE 4 (CONTINUED)
SELECTED BACKGROUND DATA FOR SPECIALTY JOBS

TRAINING 0% 83% 17% 100% E-5 % 17% 20 83 112 QUALITY ASSURANCE 100% 0% 100% 100% E-7 50% 7% % 82 178 188 9 FIRST-LINE SUPERVISION E-6/E-7 77% 22% 78% 78% 93% 18% % 100 161 170 192 F-111 MODULE EGRESS SYS MAINTENANCE E-5/E-374% 11% 37% 52% 33% 26% 55 % 103 118 119 27 AVERAGE NUMBER OF TASKS PERFORMED AVERAGE MONTHS IN CAREER FIELD PERCENT IN FIRST ENLISTMENT AVERAGE MONTHS IN SERVICE PREDOMINANT GRADE(S) PERCENT SUPERVISING DAFSC DISTRIBUTION: PERCENT OF SAMPLE PERCENT IN CONUS NUMBER IN GROUP 45432 45452 45472

I. <u>ADVANCED CONCEPT EJECTION SEAT (ACES II) EGRESS SYSTEMS MAINTENANCE (GP0035)</u>. The 291 airmen forming this group (52 percent of the survey sample and the largest job identified) are responsible for the installation, inspection, repair, and modification of the ACES II aircrew egress system. Most of their relative job time (89 percent) is spent on tasks dealing with general aircrew egress maintenance, ACES II system-specific maintenance, and the administrative documentation of maintenance actions on various forms and records. Examples of the most representative maintenance-type tasks common to these respondents are:

performing corrosion control on aircrew egress systems removing or installing ACES II STA-PAC assemblies arming or dearming ejection systems removing or installing ejection seat head-rests, back-rests, or arm-rest pads performing operational checks of ACES II environmental sensors adjusting inertia reels, linkages, or controls

Even though this job was formed on the basis of personnel performing a large number of common core tasks, some subgroups could be seen based on the performance of tasks peculiar to specific aircraft. The A-10, B-1, F-15, and F-16 aircraft all use the ACES II system, but each has some tasks which are peculiar to that weapons system. The numbers of these tasks, however, are not enough to negate the overall theme of commonality. With an average of almost 8 years time in the career field, 93 percent of these airmen report holding the 5-skill or 7-skill level, and reflect predominant paygrades of E-4 and E-5.

II. F-4 EGRESS SYSTEM MAINTENANCE (ST0079). Comprising 7 percent of the survey sample, these 36 airmen are similar to the group discussed above in that they, too, are responsible for the installation, inspection, repair, and modification of an aircrew egress system. The basic difference between the two is that the personnel forming this job concentrate their relative job time (63 percent) on tasks pertaining to general aircrew egress maintenance and, more specifically, the egress system peculiar to the F-4 aircraft. An additional 9 percent of their relative job time is devoted to the administrative tasks required to document their maintenance activities. Typical of the average 218 tasks (highest number of all groups identified) performed are:

removing or installing F-4 aircraft ejection seat buckets making entries on AFTO Forms 350 (Reparable Item Processing Tag) performing operational checks of lap-belt release mechanisms removing or installing F-4 ejection seat explosive cartridges arming or dearming ejection systems removing or installing F-4 ejection seat aircrew personnel parachutes

These predominantly E-5 personnel report an average of over 9 years experience in the career field, and 97 percent report holding the 5- or 7-skill level (50 percent and 47 percent respectively).

III. <u>B-52 EGRESS SYSTEM MAINTENANCE (GP0029)</u>. The least experienced group in the survey sample (they report an average of 75 months in the career field), these incumbents are responsible for the installation, inspection, and repair of the egress system (ejection seats and hatches) peculiar to the B-52 aircraft. The vast majority of their relative job time (89 percent) is spent on tasks dealing with general aircrew egress maintenance (48 percent), B-52 specific egress system maintenance (24 percent), and performing administrative functions related to their maintenance activities (17 percent). Typical tasks which characterize the job include:

removing or installing B-52 escape hatches inspecting ballistic gas hoses troubleshooting B-52 hatch warning-light systems updating CAMS data raising or lowering B-52 ejection seats removing or installing B-52 leg-guard thrusters

The majority of the 30 airmen in this job hold paygrades of E-2 (10 percent), E-3 (23 percent), or E-4 (27 percent), and 77 percent report holding a 3-skill or 5-skill level.

- IV. <u>U-2/TR-1</u> <u>EGRESS SYSTEMS MAINTENANCE (ST0118)</u>. The job performed by these nine airmen focuses on the maintenance and repair of egress systems for the U-2 and TR-1 aircraft. Tasks consuming most of the relative duty time of these predominantly E-4 personnel include removing or installing canopy systems check-valves, purging egress systems lines or hoses, making entries on AFTO Forms 349 (Maintenance Data Collection Record), removing or installing canopy external or internal jettison cables, and removing or installing ejection seat rotary actuators. Job members report an average of over 8 years in the career field, and all report holding the 5-skill level or 7-skill level (56 percent and 44 percent respectively).
- V. <u>T-37 AND T-38 EGRESS SYSTEMS MAINTENANCE (ST0128)</u>. These five airmen (primarily ATC personnel) concentrate their relative job time (79 percent) on tasks pertaining to installation, maintenance, modification, and repair of aircrew egress systems on the A-37, T-37, and T-38 aircraft. An additional 9 percent of their relative job time is spent on the performance of general administrative functions. Distinctive tasks (an average of 129 are performed) include:

removing or installing T-37 ejection seats removing or installing canopies removing or installing T-38 canopy thrusters

arming or dearming ejection systems removing or installing T-37 or A-37 inertia harnesses removing or installing T-38 ejection seats inspecting canopy firing release mechanisms or extractors

With an average of almost 7 years time in the career field, 80 percent of these airmen report holding the 5-skill or 7-skill level and reflect a predominant paygrade of E-4.

VI. F-111 MODULE EGRESS SYSTEM MAINTENANCE (\$70049). Comprising 5 percent of the survey sample, these 27 airmen are responsible for the maintenance, repair, and modification of the unique module egress system distinctive to the F/FB/EF-111 series aircraft. Forty percent of their relative job time is devoted to tasks specific to the module egress system, with an additional 40 percent committed to tasks involving general egress system maintenance and administrative functions associated with maintenance procedures. Tasks which display the specialized nature of the job include:

inspecting module impact attenuation pneumatic regulators performing functional checks of inertia reels removing or installing module recovery parachutes making entries on AFTO Form 781A (Maintenance Discrepancy and Work Document) repairing bilge pumps removing or installing module emergency radio beacons

These personnel are very experienced, reporting an average of over 8 1/2 years time in the career field, and 52 percent indicate holding the 7-skill level.

VII. <u>FIRST-LINE SUPERVISION</u> (ST0064). Ninety-three of these 100 respondents (18 percent of the survey sample and the second largest group identified) reported that they were supervising other personnel. Averaging over 13 years in the career field, 78 percent report holding the 7-skill level. While the job still involves the performance of many tasks pertaining to day-to-day technical egress systems maintenance and repair activities, 56 percent of their relative job time is devoted to tasks pertaining to supervision, management, training, and administrative functions. Performing many of the same technical tasks as personnel in previously described maintenance-oriented jobs, these incumbents are distinguished by the performance of basic supervisory and managerial tasks such as:

writing EPRs
supervising Aircrew Egress Systems Mechanics
(AFSC 45452)
scheduling leaves or passes
conducting OJT
performing egress systems final inspections
making entries on AF Forms 2413 (Supply Control
Log)
reviewing bench stock due-out lists (R31s)

Although some subgroups oriented to specific aircraft systems were visible, by and large the commonly performed general aircrew egress systems maintenance and supervisory tasks were the dominant characteristics of this job.

VIII. <u>QUALITY ASSURANCE</u> (ST0058). The six personnel forming this group (all report holding the 7-skill level and reflect an average of almost 15 years time in the career field) perform a job that is characterized by the time spent performing tasks dealing with the inspection, evaluation, or review of various egress systems maintenance activities or functions. Typical tasks performed by personnel in this job include:

reviewing flight safety reports
inspecting egress shop explosives storage facilities
performing quality inspections on egress systems
maintenance
evaluating inspection reports or procedures
reviewing ground safety reports

IX. TRAINING (ST0027). The majority of these six NCOs are Instructors assigned to the training center. With almost 7 years in the career field (predominant paygrade is E-5), these incumbents spend 70 percent of their relative duty time on tasks pertaining to training and general administrative functions. Examples of these definitive grouping tasks include conducting resident course classroom training, administering tests, counseling trainees on training progress, writing test questions, and developing training aids.

Comparisons of Specialty Jobs

Nine jobs were identified in the career ladder structure analysis. Six of the jobs were directly involved in performing the technical duties and tasks pertaining to the various aircrew egress systems. One job, FIRST-LINE SUPERVISION, reflected a combination of technical and supervisory task performance. The remaining two jobs were characterized by quality assurance and training activities.

Six of the jobs are oriented toward egress systems on specific aircraft (or series of aircraft -- ACES II). Five of these six perform a large number of common-core general egress maintenance tasks. The F-111 MODULE EGRESS SYSTEM MAINTENANCE job is notably different because personnel perform a series of tasks peculiar to the module system versus the individual seats in the other systems. These data indicate a homogeneous career ladder, and personnel, overall, are performing jobs as defined in the current classification structure.

Comparison of Current Job Descriptions to Previous Survey Findings

The results of the specialty job analysis were compared to those of Occupational Survey Report (OSR) AFPT 90-423-503, AIRCREW EGRESS SYSTEMS CAREER LADDER (old AFSC 423X2), dated September 1984. After reviewing the tasks comprising the jobs identified in 1984, all of the groups with substantial numbers of personnel could be linked to similar task performances by 1992 sample groups (see Table 5).

While there were three jobs identified in the current sample which did not have a direct match in the 1984 career ladder structure, and four 1984 jobs do not appear in the current structure, the personnel in these jobs represent very small percentages of the survey samples and should have very little impact on the career ladder as a whole in terms of numbers. Changes regarding three of the jobs, however, are noteworthy.

The substantial increase in the percentage of career ladder personnel in the ACES II EGRESS SYSTEMS MAINTENANCE job in 1992 versus 1984, along with the corresponding decrease in personnel in the 1992 F-4 EGRESS SYSTEM MAINTENANCE job, reflects the decreasing number of F-4 series aircraft in the active-duty USAF inventory and the increase in aircraft using the ACES II egress system. These changes should be noted by training officials, and most likely will require some adjustments in training programs.

The second notable change is the decrease in the percentage of 1992 sample personnel involved in T-37 and T-38 egress systems maintenance. This change has occurred because of the move to contract maintenance for most T-37 and T-38 series aircraft.

While the vast majority of the current sample were found to be performing jobs identified in 1984, the change in emphasis regarding the two largest jobs (ACES II and F-4 EGRESS SYSTEMS MAINTENANCE) must be considered in future training decisions.

TABLE 5

SPECIALTY JOB COMPARISONS BETWEEN CURRENT AND 1984 SURVEYS

CURRENT SURVEY (N=557)	PERCENT OF SAMPLE	1984 SURVEY (N=854)	PERCENT OF SAMPLE
ACES II EGRESS SYSTEMS MAINTENANCE	52	ACES II CLUSTER	20
F-4 EGRESS SYSTEM MAINTENANCE	7	F-4 EGRESS SYSTEM CLUSTER	35
B-52 EGRESS SYSTEM MAINTENANCE	'n	B-52 EGRESS SYSTEM PERSONNEL	9
U-2/TR-1 EGRESS SYSTEMS MAINTENANCE	2	NOT IDENTIFIED	ı
T/A-37 AND T-38 EGRESS SYSTEMS MAINTENANCE		T-37/T-38 EGRESS SYSTEM PERSONNEL	10
F-111 MODULE EGRESS SYSTEM MAINTENANCE	ம	MODULE EGRESS SYSTEM PERSONNEL	9
FIRST-LINE SUPERVISION	18	EGRESS SYSTEM NCOICS	10
QUALITY ASSURANCE	1	NOT IDENTIFIED	1
TRAINING	1	NOT IDENTIFIED	1
NOT IDENTIFIED	1	F-106 AND T-33 EGRESS SYSTEM PERSONNEL	က
NOT IDENTIFIED	1	OV-10 EGRESS SYSTEM PERSONNEL	1
NOT IDENTIFIED	ŧ	PYROTECHNICIANS	*
NOT IDENTIFIED		SUPERINTENDENTS	1

* Less than .5 percent

ANALYSIS OF DAFSC GROUPS

An analysis of DAFSC groups, in conjunction with the analysis of the career ladder structure, is an important part of each occupational survey. The DAFSC analysis identifies differences in tasks performed at the various skill levels. This information may then be used to evaluate how well career ladder documents, such as AFR 39-1 Specialty Descriptions and the Specialty Training Standard (STS), reflect what career ladder personnel are actually doing in the field.

The distribution of skill-level groups across the career ladder jobs is displayed in Table 6, while Table 7 offers another perspective by displaying the relative percent time spent on each duty across the skill-level groups. A typical pattern of progression is present, with personnel spending more of their relative time on duties involving supervisory, managerial, and training tasks as they move upward toward the 7-skill level. It is also obvious, though, that 7-skill level personnel are still involved with technical task performance, as will be pointed out in the specific skill-level group discussions below.

Skill-Level Descriptions

<u>DAFSC 45432</u>. The 37 airmen reporting holding the 3-skill level (representing 7 percent of the survey sample), performed an average of only 84 tasks, with 69 tasks accounting for over 50 percent of their relative job time. Performing a highly technical job, 86 percent of their relative duty time is devoted to tasks covering general and aircraft-specific maintenance pertaining to most aircrew egress systems. Tasks involving general administrative functions accounted for an additional 11 percent of their duty time. As shown in Table 6, personnel in this group are represented in five of the six technically oriented jobs, with the majority in the ACES II EGRESS SYSTEM MAINTENANCE job. Table 8 displays representative time-consuming tasks performed by the highest percentages of these airmen.

DAFSC 45452. Five-skill level personnel (47 percent of the survey sample) perform many tasks in common with the 3-skill level personnel. The scope of the job performed by these airmen is somewhat greater than that of the 3-skill level group (127 tasks versus an average of only 84 tasks respectively), and 5-skill level members are represented in all but 1 of the 9 specialty jobs (see Table 6). Seventy-five percent of these airmen's relative job time is spent on tasks involving maintenance of the various aircrew egress systems. Additionally, 15 percent of their relative time is devoted to performing administrative functions in support of their maintenance activities. Table 9 displays selected representative tasks performed by the highest percentages of these airmen. Table 10 displays those tasks which reflect differences between the 3-skill level and 5-skill level groups.

TABLE 6
DISTRIBUTION OF DAFSC GROUP MYMBERS ACROSS SPECIALTY JOBS

		DAFSC (N=	DAFSC 45432 (N=37)	DAFSC (N=	DAFSC 45452 (N=265)	DAFSC (N=	DAFSC 45472 (N=255)
SPECIAL	SPECIALTY JOBS	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT
H.	ADVANCED CONCEPT EJECTION SEAT (ACES II) EGRESS SYSTEMS MAINTENANCE	20	54%	172	% 59	66	39%
11.	F-4 EGRESS SYSTEM MAINTÉNANCE	~	% %	18	7%	17	7%
III.	B-52 EGRESS SYSTEM MAINTENANCE	6	24%	14	5%	7	3%
IV.	U-2/TR-1 EGRESS SYSTEMS MAINTENANCE	0	%	S	2 %	4	%
>	T/A-37 AND T-38 EGRESS SYSTEMS MAINTENANCE	-	3%	2	1%	2	7%
VI.	F-111 MODULE EGRESS SYSTEM MAINTENANCE	က	8%	10	4%	14	%
VII.	FIRST-LINE SUPERVISION	0	%0	22	% 8	78	30%
VIII.	QUALITY ASSURANCE	0	%	0	0	9	7%
IX.	TRAINING	0	%	ഹ	2%	-	*
	NOT GROUPED	ო	88	17	%	27	11%

* Less than .5 percent

TABLE 7

RELATIVE PERCENT TIME SPENT ON DUTIES BY DAFSC GROUPS

3	DUTIES	DAFSC 45432 (N=37)	DAFSC 45452 (N=265)	DAFSC 45472 (N=255)
<	ORGANIZING AND PLANNING	*	2	7
80	DIRECTING AND IMPLEMENTING	m	က	9
ပ	INSPECTING AND EVALUATING	*	2	∞
0	TRAINING	*	က	9
ш	PERFORMING GENERAL ADMINISTRATIVE FUNCTIONS	11	15	19
u.	PERFORMING GENERAL AIRCTAFT MAINTENANCE ACTIVITIES		1	*
G	PERFORMING GENERAL AIRCREW EGRESS MAINTENANCE ACTIVITIES	47	44	33
I	MAINTAINING ADVANCED CONCEPT EJECTION SEAT (ACES II) SYSTEMS	24	23	15
I	MAINTAINING F-4 EGRESS SYSTEMS	2	2	2
J	MAINTAINING F-111 MODULE EGRESS SYSTEMS	4	2	က
¥	MAINTAINING B-52 EGRESS SYSTEMS	7	~	-
ب	MAINTAINING T-38 EGRESS SYSTEMS	7	-	*
Σ	MAINTAINING T-37 OR A-37 EGRESS SYSTEMS	*	* *	*

* Less than .5 percent

TABLE 8

REPRESENTATIVE TASKS PERFORMED BY 45432 PERSONNEL

TASKS		PERCENT MEMBERS PERFORMING (N=37)
G210	ARM OR DEARM EJECTION SYSTEMS	89
E125	ARM OR DEARM EJECTION SYSTEMS MAKE ENTRIES ON AFTO FORMS 350 (REP ITEM PROCESSING TAG) CLEAN EGRESS SHOP EQUIPMENT	84
G211	CLEAN EGRESS SHOP EQUIPMENT	81
F126	MAKE ENTRIES ON AFTO FORMS 781A (MAINTENANCE DISCREPANCY	
	AND WORK DOCUMENT)	76
G219	INSPECT BALLISTIC GAS HOSES	76
G291	REMOVE OR INSTALL EJECTION SEAT SURVIVAL KITS	73
G258	PERFORM FUNCTIONAL CHECKS OF INERTIA REELS	70
G235	INSPECT EJECTION SEAT HEAD-RESTS	70
G269	PERFORM TCTO MODIFICATIONS TO EGRESS SYSTEMS	70
G253	PERFORM CORROSION CONTROL ON AIRCREW EGRESS SYSTEMS	68
G252	PERFORM COCKPIT FOREIGN OBJECT INSPECTIONS	65
G284	REMOVE OR INSTALL EJECTION SEAT DROGUE-CHUTES	65
G287	REMOVE OR INSTALL EJECTION SEAT HEAD-RESTS, BACK-RESTS,	
	AND WORK DOCUMENT) INSPECT BALLISTIC GAS HOSES REMOVE OR INSTALL EJECTION SEAT SURVIVAL KITS PERFORM FUNCTIONAL CHECKS OF INERTIA REELS INSPECT EJECTION SEAT HEAD-RESTS PERFORM TCTO MODIFICATIONS TO EGRESS SYSTEMS PERFORM CORROSION CONTROL ON AIRCREW EGRESS SYSTEMS PERFORM CORKPIT FOREIGN OBJECT INSPECTIONS REMOVE OR INSTALL EJECTION SEAT DROGUE-CHUTES REMOVE OR INSTALL EJECTION SEAT HEAD-RESTS, BACK-RESTS, LEG-RESTS, OR ARM-REST PADS ADJUST EJECTION SEAT COMPONENTS OR LINKAGES REMOVE OR INSTALL ACES II ENVIRONMENTAL SENSORS MAKE ENTRIES ON TOOL INVENTORY FORMS INVENTORY EQUIPMENT, TOOLS, OR SUPPLIES TRANSPORT EGRESS SYSTEMS EXPLOSIVE COMPONENTS PERFORM OPERATIONAL CHECKS OF SEAT ACTUATORS REMOVE OR INSTALL AIRCRAFT PANELS INSPECT EGRESS SHOP SUPPORT EQUIPMENT REMOVE OR INSTALL AIRCRAFT PANELS INSPECT INERTIA REELS, LINKAGES, CABLES, STRAPS, OR CONTROLS REMOVE OR INSTALL ACES II RECOVER SEQUENCERS REMOVE OR INSTALL ACES II RECOVER SEQUENCERS REMOVE OR INSTALL ACES II EJECTION SEAT RECOVERY PARACHUTES REMOVE OR INSTALL ACES II EJECTION SEAT RECOVERY PARACHUTES REMOVE OR INSTALL ACES II EJECTION SEAT RECOVERY PARACHUTES REMOVE OR INSTALL ACES II EJECTION SEAT RECOVERY PARACHUTES REMOVE OR INSTALL ACTUATORS OR BALLISTIC REMOVERS INSPECT EGRESS SYSTEM BALLISTIC COMPONENTS, OTHER THAN EXPLOSIVE PANELS OR LINES	65
G207	ADJUST EJECTION SEAT COMPONENTS OR LINKAGES	65
H368	REMOVE OR INSTALL ACES II ENVIRONMENTAL SENSORS	65
E140	MAKE ENTRIES ON TOOL INVENTORY FORMS	62
B39	INVENTORY EQUIPMENT, TOOLS, OR SUPPLIES	62
G299	TRANSPORT EGRESS SYSTEMS EXPLOSIVE COMPONENTS	62
G264	PERFORM OPERATIONAL CHECKS OF SEAT ACTUATORS	59
G272	REMOVE OR INSTALL AIRCRAFT PANELS	59
G227	INSPECT EGRESS SHOP SUPPORT EQUIPMENT	59
G288	REMOVE OR INSTALL EJECTION SEAT LAP-BELTS	59
G243	INSPECT INERTIA REELS, LINKAGES, CABLES, STRAPS, OR	5.0
	CONTROLS	59
H3/0	REMOVE OR INSTALL ACES II RECOVER SEQUENCERS	5/
H364	REMOVE OR INSTALL ACES II EJECTION SEAT RECOVERY	ŕ-
	PARACHUTES	5/
G2/1	REMOVE OR INSTALL ACTUATORS OR BALLISTIC REMOVERS	54
G228	INSPECT EGRESS SYSTEM BALLISTIC COMPONENTS, OTHER THAN	r 4
0057	EXPLOSIVE PANELS OR LINES	54
625/	PERFORM FUNCTIONAL CHECKS OF EJECTION SEAT LINKAGES, SUCH	
	AS D-RINGS OR EJECTION CONTROL HANDLES	51

Average Number of Tasks Performed - 84

TABLE 9

REPRESENTATIVE TASKS PERFORMED BY 45452 PERSONNEL

TASKS		PERCENT MEMBERS PERFORMING (N=265)
G210	ARM OR DEARM EJECTION SYSTEMS TRANSPORT EGRESS SYSTEMS EXPLOSIVE COMPONENTS PERFORM FUNCTIONAL CHECKS OF INERTIA REELS INSPECT EJECTION SEAT LAP-BELTS INSPECT EJECTION SEAT HEAD-RESTS MAKE ENTRIES ON AETO FORMS 350 (REP. ITEM PROCESSING TAG)	91
G299	TRANSPORT EGRESS SYSTEMS EXPLOSIVE COMPONENTS	90
G258	PERFORM FUNCTIONAL CHECKS OF INERTIA REELS	89
G236	INSPECT EJECTION SEAT LAP-BELTS	86
G235	INSPECT FJECTION SEAT HEAD-RESTS	86
E125	MAKE ENTRIES ON AFTO FORMS 350 (REP ITEM PROCESSING TAG)	86
E126	INSPECT EJECTION SEAT LAP-BELTS INSPECT EJECTION SEAT HEAD-RESTS MAKE ENTRIES ON AFTO FORMS 350 (REP ITEM PROCESSING TAG) MAKE ENTRIES ON AFTO FORMS 781A (MAINTENANCE DISCREPANCY	
	AND WORK DOCUMENT)	85
G211	CLEAN EGRESS SHOP EQUIPMENT	83
G269	AND WORK DOCUMENT) CLEAN EGRESS SHOP EQUIPMENT PERFORM TCTO MODIFICATIONS TO EGRESS SYSTEMS	82
G219		
	REMOVE OR INSTALL INERTIA REELS, LINKAGES, CABLES, STRAPS, OR CONTROLS REMOVE OR INSTALL EJECTION SEAT CATAPULTS PERFORM CORROSION CONTROL ON AIRCREW EGRESS SYSTEMS REMOVE OR INSTALL EJECTION SEAT SURVIVAL KITS ADJUST EJECTION SEAT COMPONENTS OR LINKAGES REMOVE OR INSTALL ACES II ENVIRONMENTAL SENSORS MAKE ENTRIES ON AF FORMS 2005 (ISSUE/TURN-IN REQUEST) REMOVE OR INSTALL ACES II MORTAR DISCONNECT ASSEMBLIES INSPECT ACES II DROGUE SEVERANCE CUTTERS REMOVE OR INSTALL ACES II RECOVERY SEQUENCERS INSPECT ACES II SEAT SLINGS PERFORM OPERATIONAL CHECKS OF ACES II EJECTION SEAT SEQUENCE-START SWITCHES	81
G282	REMOVE OR INSTALL EJECTION SEAT CATAPULTS	81
G253	PERFORM CORROSION CONTROL ON AIRCREW EGRESS SYSTEMS	78
G291	REMOVE OR INSTALL EJECTION SEAT SURVIVAL KITS	76
G207	ADJUST EJECTION SEAT COMPONENTS OR LINKAGES	75
H368	REMOVE OR INSTALL ACES II ENVIRONMENTAL SENSORS	73
E111	MAKE ENTRIES ON AF FORMS 2005 (ISSUE/TURN-IN REQUEST)	72
H369	REMOVE OR INSTALL ACES II MORTAR DISCONNECT ASSEMBLIES	72
H307	INSPECT ACES II DROGUE SEVERANCE CUTTERS	71
H370	REMOVE OR INSTALL ACES II RECOVERY SEQUENCERS	71
H315	INSPECT ACES II SEAT SLINGS	70
H348	PERFORM OPERATIONAL CHECKS OF ACES II EJECTION SEAT	
	SEQUENCE-START SWITCHES	65
G262	PERFORM OPERATIONAL CHECKS OF LAP-BELT RELEASE MECHANISMS	63
G240	INSPECT EJECTION SEAT POSITIONING ACTUATORS	60
G294	REMOVE OR INSTALL SEAT POSITIONING ACTUATORS	58
G241	PERFORM OPERATIONAL CHECKS OF LAP-BELT RELEASE MECHANISMS INSPECT EJECTION SEAT POSITIONING ACTUATORS REMOVE OR INSTALL SEAT POSITIONING ACTUATORS INSPECT EJECTION SEAT SURVIVAL KITS MAKE ENTRIES ON AF FORMS 2413 (SUPPLY CONTROL LOG) MAKE ENTRIES ON EXPLOSIVES INVENTORY FORMS	55
E113	MAKE ENTRIES ON AF FORMS 2413 (SUPPLY CONTROL LOG)	54
F118	MAKE ENTRIES ON EXPLOSIVES INVENTORY FORMS	52

Average Number of Tasks Performed - 127

TABLE 10

TASKS WHICH BEST DIFFERENTIATE BETWEEN DAFSCs 45432 AND 45452 PERSONNEL (PERCENT MEMBERS PERFORMING)

TASKS	·	DAFSC 45432 (N=37)	DAFSC 45452 (N=265)	DIFF
K352	INSPECT B-52 HATCH COMPONENTS	30	10	+20
K541	REMOVE OR INSTALL B-52 ESCAPE HATCHES	27	10	+17
H392	REMOVE OR INSTALL F-15 CANOPY RAISING ADAPTERS	30	22	+12
E124	MAKE ENTRIES ON AFTO FORMS 349 (MAINTENANCE DATA COLLECTION RECORD)	49	38	+11
G218	INSPECT AIRCRAFT MAINTENANCE EQUIPMENT (AME), SUCH AS PINS, STRUTS, CAPS, OR PLUGS	62	53	+9
G223	INSPECT CANOPY OR HATCH SLINGS	35	31	+4
E114	MAKE ENTRIES ON AF FORMS 2430 (SPECIALIST DISPATCH LOG)	22	71	-49
G281	REMOVE OR INSTALL EGRESS SYSTEMS LINES, TUBES, OR HOSES	38	73	-35
G260	PERFORM ONE-TIME INSPECTIONS ON EGRESS SYSTEMS	46	78	-32
E133	MAKE ENTRIES ON DD FORMS 1574 (SERVICEABLE TAG-MATERIEL)	35	65	-30
G303	TROUBLESHOOT EJECTION SEAT POSITIONING MECHANISMS, SUCH AS CABLES, ACTUATORS, OR THRUSTERS	22	51	-29
G233	INSPECT EJECTION SEAT EMERGENCY OXYGEN SYSTEMS	49	78	-29
E163	UPDATE CAMS DATA	35	60	-25

DAFSC_45472. Representing 46 percent of the survey sample, these 255 NCOs perform an average of 153 tasks, with 106 tasks accounting for over 50 percent of their relative job time. Even though 86 percent report supervisory responsibilities, only 27 percent of their job time is spent on the usual supervisory, managerial, and training duties (see Table 7, Duties A, B, C, and D). A review of Table 6 shows this orientation toward day-to-day technical maintenance activity, since 87 percent of the 7-skill level personnel are found in the jobs that were identified with aircrew ejection systems maintenance or technician-supervisory functions (i.e., the FIRST-LINE SUPERVISION job). While the display of tasks in Table 11 clearly shows supervisory responsibilities, it also reflects the range and scope of the job, in that they are also technicians performing a variety of routine technical tasks. Table 12 presents tasks which show differences between the 7-skill level and 5-skill level groups and also reflects the supervisory responsibilities incumbent to the 7skill level population.

Summary

Three-skill level and 5-skill level airmen perform many tasks in common, and both groups spend the vast majority of their relative job time performing technical maintenance tasks. At the 7-skill level, although members still perform a substantial amount of routine day-to-day technical egress systems maintenance, a shift toward supervisory functions is evident.

ANALYSIS OF AFR 39-1 SPECIALTY DESCRIPTIONS

Survey data were compared to the AFR 39-1 Specialty Descriptions for Aircrew Egress Systems Mechanic and Aircrew Egress Systems Technician, both dated 30 April 1991.

The 3-/5-skill level specialty description appears complete and accurately portrays the range and technical nature of the job. The description for the technician (AFSC 45472) accurately reflects both the supervisory and the previously discussed technical nature of job.

TRAINING ANALYSIS

Occupational survey data are one of the many sources of information which can be used to assist in the development of a training program relevant to the needs of personnel in their first enlistment. Factors which may be used in evaluating training include the overall description of the job being performed by first-enlistment personnel and their overall distribution across career ladder jobs, percentages of first-job (1-24 months TAFMS) or first-enlistment

TABLE 11

REPRESENTATIVE TASKS PERFORMED BY 45472 PERSONNEL

<u>TASKS</u>		PERCENT MEMBERS PERFORMING (N=255)
E126	MAKE ENTRIES ON AFTO FORMS 781A (MAINTENANCE DISCREPANCY AND WORK DOCUMENT) PERFORM ONE-TIME INSPECTIONS ON EGRESS SYSTEMS WRITE EPRs ARM OR DEARM EJECTION SYSTEMS CONDUCT PERFORMANCE FEEDBACK WORKSHEET (PFW) SESSIONS MAKE ENTRIES ON AFTO FORMS 350 (REP ITEM PROCESSING TAG) PERFORM FUNCTIONAL CHECKS OF INERTIA REFLS	OE.
6260	DEDECOM ONE-TIME INSPECTIONS ON FREESS SYSTEMS	80
C60	WOTTE EDD:	80
G210	ADM OD DEADM EJECTION SYSTEMS	79
C47	CONDUCT DEDECIDANCE FEEDRACK WORKSHEFT (DEW) SESSIONS	79
F125	MAKE ENTRIES ON AFTO FORMS 350 (REP ITEM PROCESSING TAG)	79 79
G258	PERFORM FUNCTIONAL CHECKS OF INERTIA REFLS	78
B41	SUPERVISE ATROPHY EGRESS SYSTEMS MECHANICS (AFSC 45452)	77
G267	PERFORM FUNCTIONAL CHECKS OF INERTIA REELS SUPERVISE AIRCREW EGRESS SYSTEMS MECHANICS (AFSC 45452) PERFORM PRODUCTION INSPECTION DUTIES (RED X) INVENTORY EQUIPMENT, TOOLS, OR SUPPLIES	77
B39	INVENTORY EQUIPMENT, TOOLS, OR SUPPLIES	77
G255	PERFORM EGRESS SYSTEMS FINAL INSPECTIONS	74
G282	INVENTORY EQUIPMENT, TOOLS, OR SUPPLIES PERFORM EGRESS SYSTEMS FINAL INSPECTIONS REMOVE OR INSTALL EJECTION SEAT CATAPULTS	74
G253	PERFORM CORROSION CONTROL ON AIRCREW EGRESS SYSTEMS	73
G293	PERFORM CORROSION CONTROL ON AIRCREW EGRESS SYSTEMS REMOVE OR INSTALL INERTIA REELS, LINKAGES, CABLES, STRAPS,	
	OD CONTROLS	72
G268	PERFORM QUALITY INSPECTIONS ON EGRESS SYSTEMS MAINTENANCE REMOVE OR INSTALL EJECTION SEAT LAP-BELTS ADJUST INERTIA REELS, LINKAGES, OR CONTROLS REMOVE OR INSTALL EJECTION SEAT SURVIVAL KITS REMOVE OR INSTALL EGRESS SYSTEMS LINES, TUBES, OR HOSES ADJUST EJECTION SEAT COMPONENTS OR LINKAGES	69
G288	REMOVE OR INSTALL EJECTION SEAT LAP-BELTS	69
G209	ADJUST INERTIA REELS, LINKAGES, OR CONTROLS	68
G291	REMOVE OR INSTALL EJECTION SEAT SURVIVAL KITS	66
G281	REMOVE OR INSTALL EGRESS SYSTEMS LINES, TUBES, OR HOSES	65
GZU /	ADJUST EJECTION SEAT COMPONENTS OR LINKAGES	65
G287	REMOVE OR INSTALL EGRESS SYSTEMS LINES, TUBES, OR HOSES ADJUST EJECTION SEAT COMPONENTS OR LINKAGES REMOVE OR INSTALL EJECTION SEAT HEAD-RESTS, BACK-RESTS, LEG-RESTS. OR ARM-REST PADS	45
070	LEG-RESTS, OR ARM-REST PADS WRITE RECOMMENDATIONS FOR AWARDS OR DECORATIONS REMOVE OR INSTALL EJECTION SEAT DROGUE GUNS REMOVE OR INSTALL ACES II ENVIRONMENTAL SENSORS REMOVE OR INSTALL ACES II STA-PAC ASSEMBLIES PERFORM OPERATIONAL CHECKS OF ACES II EJECTION SEAT SEQUENCE-START SWITCHES	65
C/U	WRITE RECOMMENDATIONS FOR AWARDS OR DECORATIONS	64
G283	REMOVE OR INSTALL EJECTION SEAT DROGUE GUNS	62
H368	REMOVE OR INSTALL ACES II ENVIRONMENTAL SENSORS	62
H3/1	REMOVE OR INSTALL ACES II STA-PAU ASSEMBLIES	59
H348	PERFORM UPERATIONAL CHECKS OF ACES II EJECTION SEAT	
0250	DACK OD HNDACK FORESS SYSTEMS EVALOCING COMPONENTS FOR	58
4230	PACK OR UNPACK EGRESS SYSTEMS EXPLOSIVE COMPONENTS FOR	55

Average Number of Tasks Performed - 153

TABLE 12

TASKS WHICH BEST DIFFERENTIATE BETWEEN DAFSCs 45452 AND 45472 PERSONNEL (PERCENT MEMBERS PERFORMING)

TASKS		DAFSC 45452 (N=265)	DAFSC 45472 (N=255)	DIFF
G211	CLEAN EGRESS SHOP SUPPORT EQUIPMENT	83	55	+28
G233	INSPECT EJECTION SEAT EMERGENCY OXYGEN SYSTEMS	78	65	+13
G274	REMOVE OR INSTALL CANOPIES	46	33	+13
G273	REMOVE OR INSTALL AME, SUCH AS PINS, STRUTS, CAPS, OR PLUGS	60	48	+12
G210	ARM OR DEARM EJECTION SYSTEMS	91	79	+12
E124	MAKE ENTRIES ON AFTO FORMS 349 (MAINTENANCE DATA COLLECTION RECORD)	38	26	+12
H352	PERFORM OPERATIONAL CHECKS OF ACES II STA-PAC ASSEMBLIES	54	45	+9
C69	WRITE EPRs	27	80	-53
A6	DETERMINE WORK PRIORITIES	27	73	-46
G267	PERFORM PRODUCTION INSPECTION DUTIES (RED X)	34	77	-43
G255	PERFORM EGRESS SYSTEMS FINAL INSPECTIONS	35	74	-39
B41	SUPERVISE AIRCREW EGRESS SYSTEMS MECHANICS (AFSC 45452)	41	77	-36
D79	COUNSEL TRAINEES ON TRAINING PROGRESS	24	56	-32

(1-48 months TAFMS) members performing specific tasks or using certain equipment or tools, as well as TE and TD ratings (previously explained in the SURVEY METHODOLOGY section).

To assist specifically in evaluation of the Specialty Training Standard (STS) and the Plan of Instruction (POI), technical school personnel from Sheppard Training Center matched job inventory tasks to appropriate sections and subsections of the STS and the POI for Course 3ABR45432 000. It was this matching upon which comparison to those documents was based. A complete computer listing displaying the percent members performing tasks, TE and TD ratings for each task, along with the STS and POI matchings, has been forwarded to the technical school for their use in further detailed reviews of appropriate training documents. A summary of this information is presented below.

First-Enlistment Personnel

In this study, there are 97 members in their first enlistment (1-48 months TAFMS), representing over 17 percent of the total survey sample. The job performed by these personnel is highly technical in nature, accounting for approximately 97 percent of their relative duty time (see Table 13). While Table 13 shows that first-enlistment airmen are involved in maintenance activities pertaining to various aircrew egress systems, it is clear that the largest percentage of their job time is spent on tasks pertaining to general aircrew egress maintenance activities and the ACES II system. Distribution of these personnel across the career ladder jobs is displayed in Figure 2, which also displays that the vast majority of first-enlistment airmen are associated with the ACES II egress system. Table 14 displays some of the average 107 tasks performed by the group and reflects the performance of general egress system maintenance as well as the high percent members response to tasks peculiar to the ACES II egress system.

One of the objectives of this survey project was to gather data for the training center pertaining to various types of aircraft on which egress systems are maintained, aerospace ground equipment used, and special tools or equipment used or operated. Accordingly, Tables 15 through 17 present percentages of first-enlistment airmen responding to questions concerning their activities involving these items. This type of information is useful for both technical school and MAJCOM training personnel to assist them in focusing limited training time or other resources on the most utilized items.

Training Emphasis and Task Difficulty Data

Training emphasis (TE) and task difficulty (TD) data are secondary factors that can assist technical school personnel in deciding which tasks should be emphasized in entry-level training. These ratings, based on the judgments of senior career ladder NCOs working at operational units in the field, are collected to provide training personnel with a rank-ordering of those tasks in the job inventory considered important for first-enlistment personnel training (TE) (see Table 18 for the top-rated tasks), along with a

TABLE 13

RELATIVE TIME SPENT ON DUTIES BY FIRST-ENLISTMENT PERSONNEL (N=97)

DUTIES		PERCENT TIME SPENT	
A	ORGANIZING AND PLANNING	1	
В	DIRECTING AND IMPLEMENTING	2	
С	INSPECTING AND EVALUATING	*	
D	TRAINING	*	
Ε	PERFORMING GENERAL ADMINISTRATIVE FUNCTIONS	13	
F	PERFORMING GENERAL AIRCRAFT MAINTENANCE ACTIVITIES	1	
G	PERFORMING GENERAL AIRCREW EGRESS MAINTENANCE ACTIVITIES	47	
Н	MAINTAINING ADVANCED CONCEPT EJECTION SEAT (ACES II) SYSTEMS	26	
I	MAINTAINING F-4 EGRESS SYSTEMS	2	
J	MAINTAINING F-111 MODULE EGRESS SYSTEMS	5	
K	MAINTAINING B-52 EGRESS SYSTEMS	2	
L	MAINTAINING T-38 EGRESS SYSTEMS	1	
M	MAINTAINING T-37 OR A-37 EGRESS SYSTEMS	**	

^{*} Less than .5 percent

DISTRIBUTION OF AFSC 454X2 FIRST-ENLISTMENT PERSONNEL ACROSS SPECIALTY JOBS (N= 97)

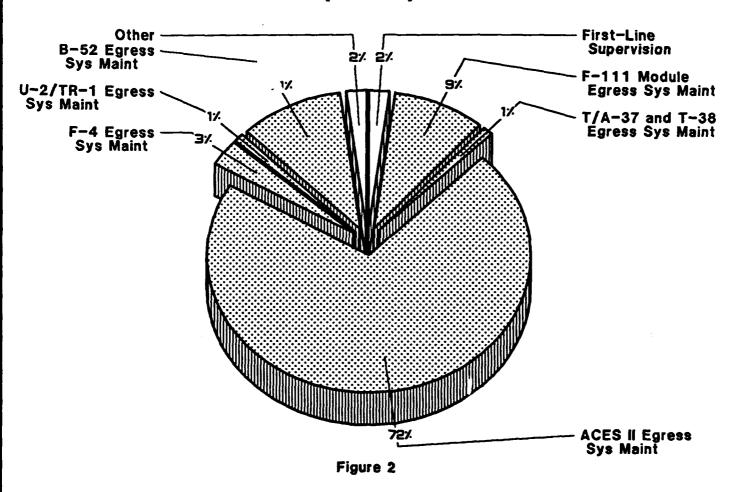


TABLE 14

REPRESENTATIVE TASKS PERFORMED BY 454X2 FIRST-ENLISTMENT PERSONNEL (N=97)

G210 ARM OR DEARM EJECTION SYSTEMS G211 CLEAN EGRESS SHOP SUPPORT EQUIPMENT G258 PERFORM FUNCTIONAL CHECKS OF INERTIA REELS E125 MAKE ENTRIES ON AFTO FORMS 350 (REP ITEM PROCESSING TAG) E126 MAKE ENTRIES ON AFTO FORMS 781A (MAINTENANCE DISCREPANCY AND WORK DOCUMENT) G269 PERFORM TCTO MODIFICATIONS TO EGRESS SYSTEMS G299 TRANSPORT EGRESS SYSTEMS EXPLOSIVE COMPONENTS G293 REMOVE OR INSTALL INERTIA REELS, LINKAGES, CABLES, STRAPS, OR CONTROLS G235 INSPECT EJECTION SEAT HEAD-RESTS G252 PERFORM COCKPIT FOREIGN OBJECT INSPECTIONS G219 INSPECT BALLISTIC GAS HOSES G243 INSPECT INERTIA REELS, LINKAGES, CABLES, STRAPS, OR	TASKS		PERCENT MEMBERS PERFORMING
G211 CLEAN EGRESS SHOP SUPPORT EQUIPMENT G258 PERFORM FUNCTIONAL CHECKS OF INERTIA REELS E125 MAKE ENTRIES ON AFTO FORMS 350 (REP ITEM PROCESSING TAG) E126 MAKE ENTRIES ON AFTO FORMS 781A (MAINTENANCE DISCREPANCY AND WORK DOCUMENT) G269 PERFORM TCTO MODIFICATIONS TO EGRESS SYSTEMS G299 TRANSPORT EGRESS SYSTEMS EXPLOSIVE COMPONENTS G293 REMOVE OR INSTALL INERTIA REELS, LINKAGES, CABLES, STRAPS, OR CONTROLS G235 INSPECT EJECTION SEAT HEAD-RESTS G252 PERFORM COCKPIT FOREIGN OBJECT INSPECTIONS G219 INSPECT BALLISTIC GAS HOSES G243 INSPECT INERTIA REELS, LINKAGES, CABLES, STRAPS, OR	1710110		<u>FERT ORPITIO</u>
G211 CLEAN EGRESS SHOP SUPPORT EQUIPMENT G258 PERFORM FUNCTIONAL CHECKS OF INERTIA REELS E125 MAKE ENTRIES ON AFTO FORMS 350 (REP ITEM PROCESSING TAG) E126 MAKE ENTRIES ON AFTO FORMS 781A (MAINTENANCE DISCREPANCY AND WORK DOCUMENT) G269 PERFORM TCTO MODIFICATIONS TO EGRESS SYSTEMS G299 TRANSPORT EGRESS SYSTEMS EXPLOSIVE COMPONENTS G293 REMOVE OR INSTALL INERTIA REELS, LINKAGES, CABLES, STRAPS, OR CONTROLS G235 INSPECT EJECTION SEAT HEAD-RESTS G252 PERFORM COCKPIT FOREIGN OBJECT INSPECTIONS G219 INSPECT BALLISTIC GAS HOSES G243 INSPECT INERTIA REELS, LINKAGES, CABLES, STRAPS, OR	G210	ARM OR DEARM EJECTION SYSTEMS	94
G258 PERFORM FUNCTIONAL CHECKS OF INERTIA REELS E125 MAKE ENTRIES ON AFTO FORMS 350 (REP ITEM PROCESSING TAG) E126 MAKE ENTRIES ON AFTO FORMS 781A (MAINTENANCE DISCREPANCY AND WORK DOCUMENT) G269 PERFORM TCTO MODIFICATIONS TO EGRESS SYSTEMS G299 TRANSPORT EGRESS SYSTEMS EXPLOSIVE COMPONENTS G293 REMOVE OR INSTALL INERTIA REELS, LINKAGES, CABLES, STRAPS, OR CONTROLS G235 INSPECT EJECTION SEAT HEAD-RESTS G252 PERFORM COCKPIT FOREIGN OBJECT INSPECTIONS G219 INSPECT BALLISTIC GAS HOSES G243 INSPECT INERTIA REELS, LINKAGES, CABLES, STRAPS, OR			
E125 MAKE ENTRIES ON AFTO FORMS 350 (REP ITEM PROCESSING TAG) 87 E126 MAKE ENTRIES ON AFTO FORMS 781A (MAINTENANCE DISCREPANCY AND WORK DOCUMENT) 86 G269 PERFORM TCTO MODIFICATIONS TO EGRESS SYSTEMS 81 G299 TRANSPORT EGRESS SYSTEMS EXPLOSIVE COMPONENTS 80 G293 REMOVE OR INSTALL INERTIA REELS, LINKAGES, CABLES, STRAPS, OR CONTROLS 80 G235 INSPECT EJECTION SEAT HEAD-RESTS 79 G252 PERFORM COCKPIT FOREIGN OBJECT INSPECTIONS 77 G219 INSPECT BALLISTIC GAS HOSES 76 G243 INSPECT INERTIA REELS, LINKAGES, CABLES, STRAPS, OR	G258	PERFORM FUNCTIONAL CHECKS OF INERTIA REFLS	87
AND WORK DOCUMENT) G269 PERFORM TCTO MODIFICATIONS TO EGRESS SYSTEMS G299 TRANSPORT EGRESS SYSTEMS EXPLOSIVE COMPONENTS G293 REMOVE OR INSTALL INERTIA REELS, LINKAGES, CABLES, STRAPS, OR CONTROLS G235 INSPECT EJECTION SEAT HEAD-RESTS G252 PERFORM COCKPIT FOREIGN OBJECT INSPECTIONS G219 INSPECT BALLISTIC GAS HOSES G243 INSPECT INERTIA REELS, LINKAGES, CABLES, STRAPS, OR	E125	MAKE ENTRIES ON AFTO FORMS 350 (REP ITEM PROCESSING TAG)	87
AND WORK DOCUMENT) G269 PERFORM TCTO MODIFICATIONS TO EGRESS SYSTEMS G299 TRANSPORT EGRESS SYSTEMS EXPLOSIVE COMPONENTS G293 REMOVE OR INSTALL INERTIA REELS, LINKAGES, CABLES, STRAPS, OR CONTROLS G235 INSPECT EJECTION SEAT HEAD-RESTS G252 PERFORM COCKPIT FOREIGN OBJECT INSPECTIONS G219 INSPECT BALLISTIC GAS HOSES G243 INSPECT INERTIA REELS, LINKAGES, CABLES, STRAPS, OR	E126	MAKE ENTRIES ON AFTO FORMS 781A (MAINTENANCE DISCREPANCY	ψ.
G269 PERFORM TCTO MODIFICATIONS TO EGRESS SYSTEMS G299 TRANSPORT EGRESS SYSTEMS EXPLOSIVE COMPONENTS G298 REMOVE OR INSTALL INERTIA REELS, LINKAGES, CABLES, STRAPS, OR CONTROLS G235 INSPECT EJECTION SEAT HEAD-RESTS G252 PERFORM COCKPIT FOREIGN OBJECT INSPECTIONS G219 INSPECT BALLISTIC GAS HOSES G243 INSPECT INERTIA REELS, LINKAGES, CABLES, STRAPS, OR		AND WORK DOCUMENT)	86
G299 TRANSPORT EGRESS SYSTEMS EXPLOSIVE COMPONENTS G293 REMOVE OR INSTALL INERTIA REELS, LINKAGES, CABLES, STRAPS, OR CONTROLS G235 INSPECT EJECTION SEAT HEAD-RESTS G252 PERFORM COCKPIT FOREIGN OBJECT INSPECTIONS G219 INSPECT BALLISTIC GAS HOSES G243 INSPECT INERTIA REELS, LINKAGES, CABLES, STRAPS, OR	G269	PERFORM TCTO MODIFICATIONS TO EGRESS SYSTEMS	
OR CONTROLS G235 INSPECT EJECTION SEAT HEAD-RESTS G252 PERFORM COCKPIT FOREIGN OBJECT INSPECTIONS G219 INSPECT BALLISTIC GAS HOSES G243 INSPECT INERTIA REELS, LINKAGES, CABLES, STRAPS, OR			
G235 INSPECT EJECTION SEAT HEAD-RESTS G252 PERFORM COCKPIT FOREIGN OBJECT INSPECTIONS G219 INSPECT BALLISTIC GAS HOSES G243 INSPECT INERTIA REELS, LINKAGES, CABLES, STRAPS, OR	G293	REMOVE OR INSTALL INERTIA REELS, LINKAGES, CABLES, STRAPS,	
G252 PERFORM COCKPIT FOREIGN OBJECT INSPECTIONS 77 G219 INSPECT BALLISTIC GAS HOSES 76 G243 INSPECT INERTIA REELS, LINKAGES, CABLES, STRAPS, OR			80
G219 INSPECT BALLISTIC GAS HOSES 76 G243 INSPECT INERTIA REELS, LINKAGES, CABLES, STRAPS, OR			79
G243 INSPECT INERTIA REELS, LINKAGES, CABLES, STRAPS, OR			
			76
	G243		
CONTROLS 75			
E140 MAKE ENTRIES ON TOOL INVENTORY FORMS 74			
H368 REMOVE OR INSTALL ACES II ENVIRONMENTAL SENSORS 74			
G291 REMOVE OR INSTALL EJECTION SEAT SURVIVAL KITS 74	G291	REMOVE OR INSTALL EJECTION SEAT SURVIVAL KITS	
G253 PERFORM CORROSION CONTROL ON AIRCREW EGRESS SYSTEMS 73	G253	PERFORM CORROSION CONTROL ON AIRCREW EGRESS SYSTEMS	
B39 INVENTORY EQUIPMENT, TOOLS, OR SUPPLIES 73	839	INVENTORY EQUIPMENT, TOOLS, OR SUPPLIES	73
H369 REMOVE OR INSTALL ACES II MORTAR DISCONNECT ASSEMBLIES 71	H369	REMOVE OR INSTALL ACES II MORTAR DISCONNECT ASSEMBLIES	71
G287 REMOVE OR INSTALL EJECTION SEAT HEAD-RESTS, BACK-RESTS,	G28/	KEMUVE UK INSTALL EJECTION SEAT HEAD-RESTS, BACK-RESTS,	
LEG-RESTS, OR ARM-REST PADS 71 G288 REMOVE OR INSTALL EJECTION SEAT LAP-BELTS 71	C200		
G288 REMOVE OR INSTALL EJECTION SEAT LAP-BELTS 71 H364 REMOVE OR INSTALL ACES II EJECTION SEAT RECOVERY			/1
	n304		70
	G272		
	G274	THEORE OR INSTALL AIRCRAFT PANELS	
G234 INSPECT EJECTION SEAT FRAMES 69 G209 ADJUST INERTIA REELS, LINKAGES, OR CONTROLS 69			
G282 REMOVE OR INSTALL EJECTION SEAT CATAPULTS 67			
H371 REMOVE OR INSTALL ACES II STA-PAC ASSEMBLIES 67			
G257 PERFORM FUNCTIONAL CHECKS OF EJECTION SEAT LINKAGES, SUCH			0/
AS D-RINGS OR EJECTION CONTROL HANDLES 65	GLU,		65

Average Number of Tasks Performed - 107

TABLE 15

AIRCRAFT ON WHICH EGRESS SYSTEMS ARE MAINTAINED BY 10 PERCENT OR MORE OF FIRST-ENLISTMENT PERSONNEL (N=97)

AIRCRAFT	PERCENT MEMBERS <u>RESPONDING</u>
F-16	42
F-15	32
A-10	18
B-52	15
F-4	10
F-111	10
T-38	10

TABLE 16

AEROSPACE GROUND EQUIPMENT (AGE) USED BY FIRST-ENLISTMENT PERSONNEL (N=97)

	PERCENT
AGE	MEMBERS <u>RESPONDING</u>
MAINTENANCE PLATFORM	82
CRANES	74
CREW CHIEF STANDS	65
AUXILIARY POWER UNITS	59
LITE-ALLS	56
MOBILE CRANES	55
GENERATORS	41
HOISTS	41
AIR COMPRESSORS	28
HEATERS	25
NITROGEN CARTS	. 24
GROUND AIR CONDITIONERS	4
CONSOLIDATED AIRCRAFT SUPPORT SYSTEMS (CASSs)	2

TABLE 17

SPECIAL TOOLS OR EQUIPMENT USED OR OPERATED BY 20 PERCENT OR MORE OF FIRST-ENLISTMENT PERSONNEL (N=97)

SPECIAL TOOLS OR EQUIPMENT	PERCENT MEMBERS RESPONDING
TORQUE WRENCHES	95
MULTIMETERS	85
SEAT SLINGS	78
SPECIAL HAND TOOLS	78
GROUNDING CABLES	76
ACES II SEAT SKIDS	74
PULL GAUGES	73
OHMMETERS	70
ENVIRONMENTAL SENSOR TEST SETS, TTU-415	69
PIN STRAIGHTENERS	67
SPRING SCALES	61
DEPTH GAUGES	60
BOOSTER TIP ALIGNMENT GAUGE SETS SEALANT GUNS	56
SEAT RAISE BARS	51
CLEARANCE GAUGES	47 47
FORCE INDICATORS	47 46
CANOPY SLINGS	45 45
EJECTION CONTROL HANDLE WEDGES	43
INITIATOR SIMULATORS	41
CANOPY TRAILERS	41
SEAT SPACERS (F-16)	40
PNEUMATIC TOOLS	39
PROTRACTORS	37
MICROMETERS	35
CANOPY RAMS	35
CANOPY BRACES	34
SEAT RAISING ADAPTERS (F-15)	32
CANOPY RAISING ADAPTERS (F-15)	32
LIFTING STRAPS	30
VACUUM TEST CHAMBERS	30
CANOPY HINGE BELLCRANK RESTRAINT TOOL (F-15)	28
BALL AND CABLE SWAGE KITS	26
CANOPY HOLD-OPEN FIXTURES (A-10)	24
SEAT RAISE MAINTENANCE PINS (A-10)	20
ALTIMETERS	20

TABLE 18

TECHNICAL TASKS RATED HIGHEST IN TRAINING EMPHASIS (TE)

			PERCENT MEMBERS PERFORMING	PERCENT S PERFORMING	
TASKS		TNG EMP*	1ST JOB (N=47)	1ST ENL (N=97)	TASK DIFF**
6213	0	5.98	64	9/	4.21
1	SAELT-LIFE SAELT-LIFE	5 90	68	94	4.52
6210	ARM OR DEARM EDECITOR STRIEMS	5.51	36	46	5.95
E163 G293	REMOVE OR INSTALL INERTIA REELS, LINKAGES, CABLES, STRAPS, OR	5 33	74	80	5.38
•	CONTROLS))	•	}	
E126	AFIU FURMS	5.25	79	98	3.01
	WORK DOCUMENT)	5.18	53	61	6.09
H351	PERFORM OF TANTALL ACEN II RECOVERY SEQUENCERS	5.16	89	70	6.59
13/0 7257	PERFORM FUNCTIONAL CHECKS OF EJECTION SEAT LINKAGES, SUCH AS		!	;	
25	DEDINGS OF ETETTON CONTROL HANDLES	4.96	57	65	5.58
0		4.94	53	29	4.41
7879	KEMUVE OK INCIPLE EDECTION SENT COLST COLST	4.76	52	69	5.43
G219	ADDUST INEKTIA REELS, LINKALS, ON CONTROLS INSPECT BALLISTIC GAS HOSES	4.69	11	9/	3.81
1					

* Mean TE Rating is 1.62, and Standard Deviation is 1.35 (High TE = 2.97) ** Average TD Rating is 5.00 $\,$

measure of the difficulty of the job inventory tasks (TD) (see the highest rated tasks presented in Table 19). When combined with data on the percentages of first-enlistment personnel performing tasks, comparisons can then be made to determine if training adjustments are necessary. For example, tasks receiving high ratings on both task factors, accompanied by moderate to high percentages performing, may warrant resident training. Those tasks receiving high task factor ratings, but low percentages performing, may be more appropriately planned for OJT programs within the career ladder. Low task factor ratings may highlight tasks best omitted from training for first-enlistment personnel, but this decision must be weighed against percentages of personnel performing the tasks, command concerns, and criticality of the tasks.

To assist technical school personnel, USAFOMS has developed a computer program that incorporates these secondary factors and the percentage of first-enlistment personnel performing each task to produce an Automated Training Indicator (ATI) for each task. These indicators correspond to training decisions listed and defined in the Training Decision Logic Table found in Attachment 1, ATCR 52-22, and allow course personnel to quickly focus their attention on those tasks which are most likely to qualify for ABR course consideration.

Various lists of tasks, accompanied by TE and TD ratings, and where appropriate, ATI information, are contained in the TRAINING EXTRACT package and should be reviewed in detail by technical school personnel. (For a more detailed explanation of TE and TD ratings, see Task Factor Administration in the SURVEY METHODOLOGY section of this report.)

Specialty Training Standard (STS)

A comprehensive review of STS 454X2, dated June 1990, compared STS items to survey data (based on the previously mentioned assistance from technical school personnel in matching job inventory tasks to STS elements). STS paragraphs containing general knowledge information, mandatory entries, subject-matter-knowledge-only requirements, or basic supervisory responsibilities were not examined. Task knowledge and performance elements of the STS were compared against the standard set forth in AFR 8-13 (dated 1 August 1986) and AFR 8-13/ATC Supplement 1 (dated 2 March 1987), Attachment 1, paragraph A1-3c(4) (i.e., include tasks performed or knowledge required by 20 percent or more of the personnel in a skill level (criterion group) of the AFS).

Overall, the STS provides comprehensive coverage of the work performed by personnel in this career ladder, with survey data supporting most of the essential paragraphs or subparagraphs. Even though some elements did not have high percentages of personnel performing matched tasks, the fact that the supporting tasks were a part of an identifiable job being performed in the career ladder supports the retention of the STS element involving those tasks.

While the overall job coverage is satisfactory, there are a number of STS elements that require review of the 3-skill level proficiency code assigned (see Table 20). These elements reflect a dash (-) proficiency code (no

TASKS RATED HIGHEST IN DIFFICULTY

				PERCENT	PERCENT MEMBERS PERFORMING	RMING
TASKS		TASK	1ST JOB (N=47)	1ST ENL (N=97)	DAFSC 45452 (N=265)	DAFSC 45472 (N=255)
1468	TROUBLESHOOT F-4 CANOPY PNEUMATIC SYSTEMS	7.65	4	4	7	6
3508	REMOVE OR INSTALL MODULE IMPACT ATTENUATOR BAGS	7.56	თ	10	9	∞
H400	REMOVE OR INSTALL F-16 CANOPY TRANSPARENCIES	7.50	45	39	40	27
H394	REMOVE OR INSTALL F-15 PYROTECHNIC MODULES	7.31	19	24	24	56
K538	REMOVE OR INSTALL B-52 COLUMN STORAGE THRUSTERS	7.29	7	က	ω	7
A12	DRAFT BUDGET OR FINANCIAL REQUIREMENTS	7.26	0		က	20
G212	DETERMINE CONDITION OF EGRESS COMPONENTS AT AIRCRAFT CRASH SITES	7.09	9	∞	13	50
J512	REMOVE OR INSTALL MODULE RECOVERY PARACHUTE CATAPULTS	7.01	6	10	9	6
J519 _.	REMOVE OR INSTALL MODULE STABILIZATION BRAKE PARACHUTES	7.00	6	6	ß	∞
H385	REMOVE OR INSTALL B-1B FORWARD ESCAPE HATCHES	7.00	4	4	က	4

* Average TD Rating is 5.00

TABLE 20

EXAMPLES OF STS ELEMENTS REQUIRING REVIEW OF 3-SKILL LEVEL PROFICIENCY CODES

		PER(MBRS PE	PERCENT MBRS PERFORMING		
STS ELEMENT (WITH SELECTED SAMPLE TASKS)	PROF	1ST JOB (N=47)	1ST ENL (N=97)	TNG	TSK DIFF**
17a(1)(b) (EXPLOSIVE COMPONENTS) REPLACE ELECTRICALLY ACTUATED DEVICE:	\odot				
H370 Remove or install ACES II recovery sequencers H402 Remove or install F-16 DTAs (detonation transfer assembly)		68 40	70 38	5.16	6.59 5.43
17a(1)(c) (EXPLOSIVE COMPONENTS) REPLACE ENERGY TRANSFER LINES	0				
G295 Remove or install SMDCs (shielded mild detonating cord)		36	41	3.94	6.24
17a(2)(b) (EXPLOSIVE COMPONENTS) INSPECT ELECTRICALLY ACTUATED DEVICES	0				
H314 Inspect ACES II recovery sequencers		22	99	4.20	5.51
17a(2)(d) INSPECT EXPLOSIVE PANELS	0				
G242 Inspect explosive panels, pyrotechnic panels, or access covers		40	44	3.80	5.60

 * Mean TE Rating is 1.62, and Standard Deviation is 1.35 (High TE = 2.97) ** Average TD Rating is 5.00

TABLE 20 (CONTINUED)

EXAMPLES OF STS ELEMENTS REQUIRING REVIEW OF 3-SKILL LEVEL PROFICIENCY CODES

	TSK DIFF**		6.27		5.18		5.53		5.38 5.43
	TNG		3.27		2.84		3.12		5.33
ENT	1ST ENL (N=97)		45		34		34		80
PERCENT MBRS PERFORMING	1ST JOB (N=47)		40		30		30		74 57
	PROF CODE	0		0		0		0	
	STS ELEMENT (WITH SELECTED SAMPLE TASKS)	18b(3) OPERATIONALLY CHECK CANOPY ELECTRICAL SYSTEMS	G256 Perform functional checks of canopy systems	18d(3) REPLACE ELECTRICAL COMPONENTS	G275 Remove or install canopy actuators	18e(3) ADJUST ELECTRICAL COMPONENTS	G203 Adjust canopy actuators	19c(1) (EJECTION SEATS) REPLACE SEAT COMPONENTS	G293 Remove or install inertia reels, linkages, cables, straps, or controls H372 Remove or install ACES II STA-PAC assembly components

* Mean TE Rating is 1.62, and Standard Deviation is 1.35 (High TE = 2.97) ** Average TD Rating is 5.00

training provided in the ABR course) in the 3-skill level column of the STS. Yet, a review of the survey data pertaining to tasks matched to these elements (very high TE ratings, above average TD ratings, and sufficiently high percentages of first-job or first-enlistment members performing) suggests that task knowledge or task performance coding may be more appropriate and justifiable.

Tasks not matched to any element of the STS are listed at the end of the STS computer listing. These were reviewed to determine if there were any tasks concentrated around any particular functions or jobs. No particular trends were noted. Examples of technical tasks performed by 20 percent or more respondents of the STS target groups, but which were not referenced to any STS element, are displayed in Table 21. Training personnel and SMEs should review these and other eligible unreferenced tasks to determine if inclusion in the STS is justified.

Plan of Instruction (POI)

Based on the previously mentioned assistance from the technical school SMEs in matching inventory tasks to the 3ABR45432 000 POI, dated 13 January 1992, a computer product was generated displaying the results of the matching process. Information furnished for consideration includes percent members performing data for first-job (1-24 months TAFMS) and first-enlistment (1-48 months TAFMS) personnel, as well as TE and TD ratings for individual tasks.

POI blocks, units of instruction, and criterion objectives were compared against the standard set forth in Attachment 1, ATCR 52-22, dated 17 February 1989 (30 percent or more of the criterion first-enlistment group performing tasks trained, along with sufficiently high TE and TD ratings on those tasks). Per this guidance, tasks trained in the course which do not meet these criteria must be considered for elimination from the formal course, if not justified on some other acceptable basis.

Review of the tasks matched to the POI reveals that most blocks and units of instruction are well supported by survey data based on the percentages of first-job or first-enlistment airmen performing tasks or high TE or TD ratings for pertinent tasks. There are four units of instruction, however, which contain objectives that are not supported by survey data and require further evaluation by training personnel and SMEs (see display in Table 22).

Two of the units of instruction in Block IV (Unit 3 - Escape Hatch System and Unit 4 - Module Egress System, accounting for 15 hours of course time) appear to be subject-matter-knowledge presentations and have no performance tasks matched to them. However, review of the background information responses to the USAF Job Inventory indicates that less then 30 percent of the airmen in their first-job or first-enlistment responded to options pertaining to egress system maintenance on B-52 (Unit 3) or F-111 series aircraft (Unit 4). Since these responses are below minimum ATC standards, the data suggest that these units of instruction should be reviewed to determine if retention in the ABR course is justified.

TABLE 21

EXAMPLES OF TECHNICAL TASKS PERFORMED BY 20 PERCENT OR MORE GROUP MEMBERS AND NOT REFERENCED TO THE STS

		PERC	ENT MEMB	PERCENT MEMBERS PERFORMING	RMING		
TASKS		1ST JOB (N=47)	1ST ENL (N=97)	DAFSC 45452 (N=265)	DAFSC 45472 (N=255)	TNG	TSK DIFF**
6210	ARM OR DEARM EJECTION SYSTEMS	68	94	91	79	5.90	4.52
H313	INSPECT ACES II RECOVERY PARACHUTES	25	64	29	62	3.10	4.54
H351	PERFORM OPERATIONAL CHECKS OF ACES II ENVIRONMENTAL SENSORS	53	61	65	26	5.18	60.9
6244	INSPECT PYROTECHNIC MODULES	28	32	31	29	2.61	6.40
E148	REVIEW CORE AUTOMATED MAINTENANCE SYSTEM (CAMS) PRODUCTS	56	37	42	63	3.57	5.24
6255	INSPECT CANOPY TRANSPARENT SURFACES	56	30	40	32	3.06	5.22
6303	TROUBLESHOOT EJECTION SEAT POSITIONING MECHANISMS, SUCH AS CABLES, ACTUATORS OR THRUSTERS	19	38	51	50	3.45	6.02
H352	PERFORM OPERATIONAL CHECKS OF ACES II STA-PAC ASSEMBLIES	40	46	54	45	4.41	5.98
H400	REMOVE OR INSTALL F-16 CANOPY TRANSPARENCIES	45	39	40	27	3.49	7.50

* Mean TE Rating is 1.62, and Standard Deviation is 1.35 (High TE = 2.97) ** Average TD Rating is 5.00

TABLE 22

POI BLOCKS REFLECTING LOW FIRST-ENLISTMENT TASK PERFORMANCE (LESS THAN 30 PERCENT RESPONDING)

	TSK DIFF**	4.69	4.83	1	1
	TNG EMP*	3.41	1.08	•	•
ENT FORMING	1ST ENL (N=97)	24	9	15	. 10
PERCENT MBRS PERFORMING	1ST JOB (N=47)	17	თ	. 21	11
	SELECTED SAMPLE TASKS	E121 MAKE ENTRIES ON AFTO FORMS 22 (TECHNICAL ORDER SYSTEM PUBLICATION IMPROVEMENT REPORT AND REPLY)	I444 PERFORM OPERATIONAL CHECKS OF F-4 TIME RELEASE MECHANISMS (TRMs)	NO TASKS MATCHED MAXIMUM RESPONSE TO B-52 AIRCRAFT EGRESS SYSTEMS MAINTENANCE OPTION:	NO TASKS MATCHED MAXIMUM RESPONSE TO F-111 SERIES AIRCRAFT EGRESS SYSTEMS MAINTENANCE OPTION:
	TIME (HOURS)	-	.	6	ဖ
	POI REFERENCE BLOCK - UNIT	ഹ	2 f	m	4
	POI RE BLOCK	1	111	VI	IV

^{*} Mean TE Rating is 1.62, and Standard Deviation is 1.35 (High TE = 2.97) ** Average TD Rating is 5.00

40

Additionally, some apparently significant tasks with high TE ratings, above average TD ratings, and 30 percent or more first-job or first-enlistment personnel performing were not matched to any POI blocks of instruction. This combination of factors indicates formal training may be required and resident technical training could be supported. Table 23 lists a sampling of a number of such tasks. Subject-matter experts and training personnel should perform an in-depth review of these and other qualifying tasks contained in the "Tasks Not Referenced" section of the previously mentioned computer printout to determine the necessity for training and the most effective method to accomplish it.

JOB SATISFACTION ANALYSIS

An examination of the job satisfaction indicators of various groups can give career ladder managers a better understanding of some of the factors which may affect the job performance of airmen in the career ladder. Attitude questions covering job interest, perceived utilization of talents and training, sense of accomplishment from work, and reenlistment intentions were included in the survey booklet to provide indications of job satisfaction. Table 24 presents job satisfaction data for AFSC 454X2 TAFMS groups, together with data for a comparative sample of Mission Equipment Maintenance career ladders surveyed in 1992. These data can give a relative measure of how the job satisfaction of AFSC 454X2 personnel compares with other similar Air Force specialties. An indication of how job satisfaction perceptions have changed over time is provided in Table 25, where TAFMS group data for 1992 survey respondents are presented, along with data from respondents to the last occupational survey involving this career ladder, published in 1984. Finally, Table 26 presents job satisfaction responses from personnel in the specialty jobs discussed in the SPECIALTY JOBS section of this report. An examination of these data can show how overall job satisfaction may be influenced by the type of job performed.

Review of Table 24 reflects that responses from AFSC 454X2 TAFMS groups regarding job interest, use of talents, use of training, and reenlistment intentions are all quite positive (65 percent or more) and are generally higher than most of the comparative groups.

Comparison of job satisfaction indicator responses of current survey TAFMS groups to those in the 1984 survey (see Table 25) indicates that positive responses are almost all higher than those for 1984 corresponding groups. The most notable exception is the somewhat lower positive response concerning reenlistment intentions by the current survey 97+ months group.

Review of the job satisfaction data for personnel in the jobs identified in the SPECIALTY JOBS analysis (see Table 26) reveals that airmen responded positively to all the indicators listed (responses to training utilization were quite high). Additionally, review of the job inventory write-in comments from survey sample personnel further supports the high job satisfaction indications for the overall career ladder.

SAMPLING OF TASKS NOT REFERENCED TO 3ABR45432 000 POI BLOCKS (30 PERCENT OR MORE PERFORMING)

PERCENT

		MBRS PERFORMING	FORMING		
		1ST JOB	1ST ENL	TNG	TASK
EXAMP	EXAMPLES OF TASKS NOT REFERENCED	(N=47)	(N=97)	EMD*	DIFF**
H400	REMOVE OR INSTALL F-16 CANOPY TRANSPARENCIES	45	39	3.49	7.50
G297	RIG OR ADJUST CANOPIES	36	38	3.14	6.72
H370	REMOVE OR INSTALL ACES II RECOVERY SEQUENCERS	89	70	5.16	6.59
6295	REMOVE OR INSTALL SMOCS	36	41	3.94	•
H351	PERFORM OPERATIONAL CHECKS OF ACES II ENVIRONMENTAL SENSORS	53	61	5.18	6.09
6303	TROUBLESHOOT EJECTION SEAT POSITIONING MECHANISMS, SUCH AS				
	CABLES. ACTUATORS. OR THRUSTERS	19	38	3.45	6.02
H352	PERFORM OPERATIONAL CHECKS OF ACES II STA-PAC ASSEMBLIES	40	46	4.41	5.98
6242	INSPECT EXPLOSIVE PANELS. PYROTECHNIC PANELS, OR ACCESS COVERS	40	44	3.80	5.60
6203	ADJUST CANOPY ACTUATORS	30	34	3.12	5.53
H314	INSPECT ACES II RECOVERY SEQUENCERS	57	99	4.20	5.51
H372	REMOVE OR INSTALL ACES II STA-PAC ASSEMBLY COMPONENTS	57	09	4.12	5.43
G245	INSPECT SHIELDED MILD DETONATION CORDS (SMDCs)	40	43	3.96	5.42
. H365	REMOVE OR INSTALL ACES II EJECTION SEAT SEQUENCE-START				
	SETTCHES	38	47	3.61	5.42
G208	ADJUST EMERGENCY HARNESS RELEASE MECHANISMS	5 6	42	3.73	5.33
G225	INSPECT CANOPY TRANSPARENT SURFACES	5 6	30	3.06	5.22
H312		22	29	4.12	5.19
6271	REMOVE OR INSTALL ACTUATORS OR BALLISTIC REMOVERS	52	63	3.86	5.12

* Mean TE Rating is 1.62, and Standard Deviation is 1.35 (High TE = 2.97) ** Average TD Rating is 5.00

TABLE 24

COMPARISON OF JOB SATISFACTION INDICATORS BY TAFMS GROUPS (PERCENT MEMBERS RESPONDING)*

EXPRESSED JOB INTEREST: INTERESTING SO-SO DULL PERCEIVED UTILIZATION OF TALENTS: FAIRLY WELL TO PERFECTLY LITTLE OR NOT AT ALL	1-48 M 454X2 (N=97) 14 2 2 2 21	1-48 MOS TAFMS COMP (S4X2 SAMPLE** N=97) (N=3,272) 82 74 14 16 2 10 2 78 75 21 20	49-96 454X2 (N=135) 68 16 16 16	49-96 MOS TAFMS COMP 154X2 SAMPLE** 1=135) (N=2.917) 68 72 16 17 16 17 16 72 16 72 16 72 17 16 72 17 16 72	97+ MO 454X2 (N=325) 67 18 15 15	97+ MOS TAFMS COMP 154X2 SAMPLE** 1=325) (N=6,421) 67 75 18 16 15 9 15 9
FAIRLY WELL TO PERFECTLY LITTLE OR NOT AT ALL REENLISTMENT INTENTIONS:	97	85 14	93	81 19	89 10	79 21
YES, OR PROBABLY YES NO, OR PROBABLY NO PLAN TO RETIRE	73 27 0	58 41 0	84 16 0	30 0	66 19 14	75 7 18

* Columns may not add to 100 percent due to nonresponse or rounding ** Comparative sample of Mission Equipment Maintenance career ladders surveyed in 1992 (includes AFSCs 305X4, 404X0, 411X0A, 452X5, 454X5, 454X6, 457X0, 457X2, and 463X0)

TABLE 25

COMPARISON OF CURRENT SURVEY AND 1984 TAFMS GROUPS (PERCENT MEMBERS RESPONDING POSITIVELY)

	1-48 M	1-48 MOS TAFMS	49-96 M	49-96 MOS TAFMS	97+ MO	97+ MOS TAFMS
	1992 (N=97)	1984 (N=344)	1992 (N=135)	1984 (N=228)	1992 (N=325)	1984 (N=278)
JOB SATISFACTION INFORMATION:						
JOB FAIRLY INTERESTING OR BETTER	85	98	89	28	<i>L</i> 9	89
TALENTS UTILIZED FAIRLY WELL OR BETTER	78	69	36	70	80	78
TRAINING UTILIZED FAIRLY WELL OR BETTER	97	93	93	88	88	88
FAVORABLY CONSIDERING REENLISTMENT	73	64	84	78	99	78

TABLE 26

COMPARISONS OF JOB SATISFACTION INDICATORS BY SPECIALTY JOBS (PERCENT MEMBERS RESPONDING)*

	ACES II EGRESS SYS MAINT (N=291)	F-4 EGRESS SYS MAINT (N=36)	B-52 EGRESS SYS MAINT (N=30)	U-2/TR-1 EGRESS SYS MAINT (N=9)	T/A-37 & T-38 EGRESS SYS MAINT (N=5)
EXPRESSEU JUB INTEREST: INTERESTING SO-SO DULL	69 16 14	58 31 11	67 23 10	56 11 33	100 0 0
PERCEIVED USE OF TALENTS: FAIRLY WELL TO PERFECTLY LITTLE OR NOT AT ALL	81 19	83 17	67 33	78 22	100
PERCEIVED USE OF TRAINING: FAIRLY WELL TO PERFECTLY LITTLE OR NOT AT ALL	92	97 3	83 17	100	100
SENSE OF ACCOMPLISHMENT FROM JOB: SATISFIED NEUTRAL DISSATISFIED	78 9 14	75 8 17	63 20 17	67 11 22	80 20 0
REENLISTMENT INTENTIONS: YES, OR PROBABLY YES NO, OR PROBABLY NO PLAN TO RETIRE	74 22 4	83 11 6	57 37 7	89 11	100

* Columns may not add to 100 percent due to nonresponse or rounding

TABLE 26 (CONTINUED)

COMPARISONS OF JOB SATISFACTION INDICATORS BY SPECIALTY JOBS (PERCENT MEMBERS RESPONDING)*

	F-111 MOD EGRESS SYS MAINTENANCE	FIRST-LINE SUPERVISION	QUALITY ASSURANCE (N=6)	TRAINING (N=6)
EXPRESSED JOB INTERESI:	(/2-M)	001-111		
INTERESTING SO-SO DULL	78 15 4	73 15 12	100 0 0	83 0 17
PERCEIVED USE OF TALENTS: FAIRLY WELL TO PERFECTLY LITTLE OR NOT AT ALL	74 22	87 14	100	83 17
PERCEIVED USE OF TRAINING: FAIRLY WELL TO PERFECTLY LITTLE OR NOT AT ALL	89	93	100	100
SENSE OF ACCOMPLISHMENT FROM JOB: SATISFIED NEUTRAL DISSATISFIED	63 22 11	76 11 13	83 0 17	83 17 0
REENLISTMENT INTENTIONS: YES, OR PROBABLY YES NO, OR PROBABLY NO PLAN TO RETIRE	70 11 15	70 17 13	83 0 17	20 20 0

* Columns may not add to 100 percent due to nonresponse or rounding

When there are serious problems in a career ladder, survey respondents are usually quite free with write-in comments to complain about perceived problems in the field. Twenty-nine percent of the survey sample used the write-in feature to convey some type of information, yet only 6 percent of the comments received (representing less than 2 percent of the total sample) could be characterized as complaints. No particular trends were noted among the few comments received.

The high percentages of positive responses in these comparisons reflect a career ladder where personnel appear to be well satisfied with their jobs.

SPECIAL ANALYSIS

In response to requests for a variety of different types of information by the Air Staff functional manager and technical training personnel, a series of special background questions were included in the survey instrument. The types of questions varied and included the following items: percentages of personnel who augmented other AFSCs or teams while deployed in support of Operation DESERT SHIELD or DESERT STORM; percentage of time spent by personnel augmenting other AFSCs or teams while deployed in support of Operation DESERT SHIELD/STORM; an indication of the level of satisfaction concerning training received for the performance of general aircraft maintenance tasks; and an indication of the length of time required to receive field training detachment (FTD) certification training for aircraft maintained. The response data to these various questions are compiled in table format (by time and skill-level groups) and are presented in Appendix B (Tables B1 through B4). A brief summary of these data (keying on the 5-skill level members) is presented below.

Review of these special questions indicates that the highest percentages of the 5-skill level personnel who participated in the augmentation program (only 25 percent) were in support of the Aircraft Fuels Systems specialty (AFSC 454X3, 11 percent), Tactical Aircraft Maintenance specialty (AFSC 452X4, 7 percent), Launch or Recovery Crew (14 percent), and the Aircraft Tow Team (9 percent) (see Table B1).

The data presented in Table B2 reveal that while 25 percent of the 5-skill level members were involved in the augmentation of other AFSCs or teams, only 16 percent of the group spent 20 percent or more of their time doing so.

Although 37 percent of the group members reported they did not perform general aircraft maintenance tasks (1 percent did not respond), most of the respondents indicated they were satisfied with the training received (see Table B3).

Review of Table B4 indicates that 54 percent of the 5-skill level airmen received FTD certification training on their current aircraft in less than 3 months. Seventy-nine percent completed the training in less than 6 months.

IMPLICATIONS

This survey was requested by training personnel to review the structure of the career ladder since Rivet Workforce changes were implemented and to obtain current task and equipment data.

Survey results described in the SPECIALTY JOBS section clearly show a transition, whereby the majority of aircrew egress system maintainers are involved with maintenance of the ACES II egress system instead of the system on the F-4 aircraft.

This evolution also has an effect on the training program. Although the STS covers the range of various jobs identified in the career ladder structure, there are a number of elements that require review of the 3-skill level proficiency codes assigned. Additionally, there were a number of tasks not matched to the STS which require review for possible inclusion in the STS. Comparison of the survey data to the POI for the ABR course revealed that two units of instruction dealing with the B-52 and F-111 egress systems did not meet the minimum percent members performing standard for retention in the ABR POI. Additionally, a number of tasks performed by sufficient numbers of first-enlistment airmen and reflecting high TE and above average TD ratings should be reviewed for possible inclusion in the ABR course.

APPENDIX A

SELECTED REPRESENTATIVE TASKS PERFORMED BY SPECIALTY JOB GROUPS

TABLE I

GROUP ID NUMBER AND TITLE: GP0035, ADVANCED CONCEPT EJECTION SEAT (ACES II)

EGRESS SYSTEMS MAINTENANCE

GROUP SIZE: 291

PREDOMINANT GRADE: E-4/E-5

PERCENT OF SAMPLE: 52% AVERAGE TICF: 93 MONTHS

AVERAGE TAFMS: 98 MONTHS

REPRE	SENTATIVE TASKS	PERCENT MEMBERS <u>PERFORMING</u>
H368	REMOVE OR INSTALL ACES II ENVIRONMENTAL SENSORS ARM OR DEARM EJECTION SYSTEMS REMOVE OR INSTALL ACES II MORTAR DISCONNECT ASSEMBLIES INSPECT ACES II ENVIRONMENTAL SENSORS INSPECT ACES II ENVIRONMENTAL SENSORS INSPECT ACES II RECOVERY SEQUENCERS REMOVE OR INSTALL ACES II RECOVERY SEQUENCERS INSPECT ACES II DROGUE SEVERANCE CUTTERS INSPECT ACES II SEAT SLINGS INSPECT ACES II SEAT SLINGS INSPECT ACES II EJECTION-CONTROL SAFETY LEVERS REMOVE OR INSTALL ACES II EJECTION SEAT RECOVERY PARACHUTES PERFORM FUNCTIONAL CHECKS OF INERTIA REELS INSPECT EJECTION SEAT EMERGENCY OXYGEN SYSTEMS TRANSPORT EGRESS SYSTEMS EXPLOSIVE COMPONENTS INSPECT BALLISTIC GAS HOSES REMOVE OR INSTALL ACES II DROGUE SEVERENCE CUTTERS INSPECT BALLISTIC GAS HOSES REMOVE OR INSTALL ACES II STA-PAC ASSEMBLIES INSPECT ACES II EMERGENCY MANUAL CHUTE DEPLOYMENT SYSTEMS REMOVE OR INSTALL EJECTION SEAT LAP-BELTS REMOVE OR INSTALL EJECTION SEAT SURVIVAL KITS REMOVE OR INSTALL EJECTION SEAT DROGUE GUNS PERFORM OPERATIONAL CHECKS OF ACES II EJECTION SEAT SEQUENCE-START SWITCHES MAKE ENTRIES ON AFTO FORMS 781A (MAINTENANCE DISCREPANCY	97
G210	ARM OR DEARM EJECTION SYSTEMS	96
H369	REMOVE OR INSTALL ACES II MORTAR DISCONNECT ASSEMBLIES	96
H311	INSPECT ACES II ENVIRONMENTAL SENSORS	95
G235	INSPECT EJECTION SEAT HEAD-RESTS	95
H314	INSPECT ACES II RECOVERY SEQUENCERS	95
H370	REMOVE OR INSTALL ACES II RECOVERY SEQUENCERS	95
G236	INSPECT EJECTION SEAT LAP-BELTS	94
H307	INSPECT ACES II DROGUE SEVERANCE CUTTERS	93
H315	INSPECT ACES II SEAT SLINGS	93
H308	INSPECT ACES II EJECTION-CONTROL SAFETY LEVERS	93
H364	REMOVE OR INSTALL ACES II EJECTION SEAT RECOVERY PARACHUTES	91
G258	PERFORM FUNCTIONAL CHECKS OF INERTIA REELS	91
G233	INSPECT EJECTION SEAT EMERGENCY OXYGEN SYSTEMS	91
G299	TRANSPORT EGRESS SYSTEMS EXPLOSIVE COMPONENTS	90
G219	INSPECT BALLISTIC GAS HOSES	90
H362	REMOVE OR INSTALL ACES II DROGUE SEVERENCE CUTTERS	89
H313	INSPECT ACES II RECOVERY PARACHUTES	89
G288	REMOVE OR INSTALL EJECTION SEAT LAP-BELTS	89
H371	REMOVE OR INSTALL ACES II STA-PAC ASSEMBLIES	89
H310	INSPECT ACES II EMERGENCY MANUAL CHUTE DEPLOYMENT SYSTEMS	88
G291	REMOVE OR INSTALL EJECTION SEAT SURVIVAL KITS	88
G283	REMOVE OR INSTALL EJECTION SEAT DROGUE GUNS	88
H348	PERFORM OPERATIONAL CHECKS OF ACES II EJECTION SEAT	
	SEQUENCE-START SWITCHES	87
E126	MAKE ENTRIES ON AFTO FORMS 781A (MAINTENANCE DISCREPANCY	
	AND WORK DOCUMENT)	87
H351	PERFORM OPERATIONAL CHECKS OF ACES II ENVIRONMENTAL SENSORS	86
G253	PERFORM CORROSION CONTROL ON AIRCREW EGRESS SYSTEMS	85
G266	PERFORM PERIODIC INSPECTIONS ON EGRESS SYSTEMS	80
G207	ADJUST EJECTION SEAT COMPONENTS OR LINKAGES	78
G281	REMOVE OR INSTALL EGRESS SYSTEMS LINES, TUBES, OR HOSES	73
H352	PERFORM OPERATIONAL CHECKS OF ACES II STA-PAC ASSEMBLIES	69
G262	SEQUENCE-START SWITCHES MAKE ENTRIES ON AFTO FORMS 781A (MAINTENANCE DISCREPANCY AND WORK DOCUMENT) PERFORM OPERATIONAL CHECKS OF ACES II ENVIRONMENTAL SENSORS PERFORM CORROSION CONTROL ON AIRCREW EGRESS SYSTEMS PERFORM PERIODIC INSPECTIONS ON EGRESS SYSTEMS ADJUST EJECTION SEAT COMPONENTS OR LINKAGES REMOVE OR INSTALL EGRESS SYSTEMS LINES, TUBES, OR HOSES PERFORM OPERATIONAL CHECKS OF ACES II STA-PAC ASSEMBLIES PERFORM OPERATIONAL CHECKS OF LAP-BELT RELEASE MECHANISMS	67

TABLE II

GROUP ID NUMBER AND TITLE: ST0079, F-4 EGRESS SYSTEM MAINTENANCE PREDOMINANT GRADE: E-5
AVERAGE TAFMS: 120 MONTHS PERCENT OF SAMPLE: 7% AVERAGE TICF: 111 MONTHS

	SENTATIVE TASKS	PERCENT MEMBERS
REPRE	SENTATIVE TASKS	<u>PERFORMING</u>
I446 E126	REMOVE OR INSTALL F-4 AFT EJECTION SEAT BUCKETS	100
LICO	AND WORK DOCUMENT)	100
1447	REMOVE OR INSTALL F-4 AFT FJECTION SEAT REAMS	100
	ARM OR DEARM EJECTION SYSTEMS	100
	INSPECT F-4 EJECTION SEAT BUCKETS OR SEAT BUCKET COMPONENTS	100
G236	INSPECT EJECTION SEAT LAP-BELTS	100
1462	REMOVE OR INSTALL F-4 EJECTION SEAT EXPLOSIVE CARTRIDGES	100
1460	REMOVE OR INSTALL F-4 EJECTION SEAT CATAPULT GUNS	100
G288	REMOVE OR INSTALL EJECTION SEAT LAP-BELTS	100
I466	REMOVE OR INSTALL F-4 FORWARD EJECTION SEAT BUCKETS	100
I458	REMOVE OR INSTALL F-4 EJECTION SEAT AIRCREW PERSONAL	
	PARACHUTES	100
I435	PERFORM F-4 INERTIA REEL QUICK-DISCONNECT PULL TESTS	100
I423	INSPECT F-4 EJECTION SEAT MAIN BEAMS OR MAIN BEAM	
	COMPONENTS	97
G258	PERFORM FUNCTIONAL CHECKS OF INERTIA REELS	97
I422	INSPECT F-4 EJECTION SEAT EXPLOSIVE CARTRIDGES	97
G238	INSPECT EJECTION SEAT LINKAGES	97
1459	REMOVE OR INSTALL F-4 EJECTION SEAT BUCKET COMPONENTS	97
G284	REMOVE OR INSTALL EJECTION SEAT DROGUE-CHUTES	97
G233	INSPECT EJECTION SEAT EMERGENCY OXYGEN SYSTEMS	97
1467	REMOVE OR INSTALL F-4 FORWARD EJECTION SEAT MAIN BEAMS	97 27
1463	REMOVE OR INSTALL F-4 EJECTION SEAT MAIN BEAM COMPONENTS	97
G262	PERFORM OPERATIONAL CHECKS OF LAP-BELT RELEASE MECHANISMS	97
G282	REMOVE OR INSTALL EJECTION SEAT CATAPULTS	94
1433	PERFORM F-4 EMERGENCY PNEUMATIC SYSTEM FUNCTIONAL CHECKS	94
G207	ADJUST EJECTION SEAT COMPONENTS OR LINKAGES	92
1436	PERFORM F-4 MANUAL OVERRIDE TESTS	89
G208	ADJUST EMERGENCY HARNESS RELEASE MECHANISMS	86
G302	TROUBLESHOOT CANOPY MECHANICAL SYSTEMS	83
1456	REMOVE OR INSTALL F-4 CANOPY THRUSTERS	81
G272	REMOVE OR INSTALL AIRCRAFT PANELS	/5
G274	INSPECT F-4 EJECTION SEAT BUCKETS OR SEAT BUCKET COMPONENTS INSPECT EJECTION SEAT LAP-BELTS REMOVE OR INSTALL F-4 EJECTION SEAT EXPLOSIVE CARTRIDGES REMOVE OR INSTALL F-4 EJECTION SEAT CATAPULT GUNS REMOVE OR INSTALL F-4 FORWARD EJECTION SEAT BUCKETS REMOVE OR INSTALL F-4 EJECTION SEAT LAP-BELTS REMOVE OR INSTALL F-4 EJECTION SEAT AIRCREW PERSONAL PARACHUTES PERFORM F-4 INERTIA REEL QUICK-DISCONNECT PULL TESTS INSPECT F-4 EJECTION SEAT MAIN BEAMS OR MAIN BEAM COMPONENTS PERFORM FUNCTIONAL CHECKS OF INERTIA REELS INSPECT F-4 EJECTION SEAT EXPLOSIVE CARTRIDGES INSPECT EJECTION SEAT LINKAGES REMOVE OR INSTALL F-4 EJECTION SEAT BUCKET COMPONENTS REMOVE OR INSTALL EJECTION SEAT DROGUE-CHUTES INSPECT EJECTION SEAT EMERGENCY OXYGEN SYSTEMS REMOVE OR INSTALL F-4 FORWARD EJECTION SEAT MAIN BEAMS REMOVE OR INSTALL F-4 EJECTION SEAT MAIN BEAM COMPONENTS PERFORM OPERATIONAL CHECKS OF LAP-BELT RELEASE MECHANISMS REMOVE OR INSTALL EJECTION SEAT CATAPULTS PERFORM F-4 EMERGENCY PNEUMATIC SYSTEM FUNCTIONAL CHECKS ADJUST EJECTION SEAT COMPONENTS OR LINKAGES PERFORM F-4 MANUAL OVERRIDE TESTS ADJUST EMERGENCY HARNESS RELEASE MECHANISMS TROUBLESHOOT CANOPY MECHANICAL SYSTEMS REMOVE OR INSTALL F-4 CANOPY THRUSTERS REMOVE OR INSTALL AIRCRAFT PANELS REMOVE OR INSTALL CANOPIES	72

TABLE III

GROUP ID NUMBER AND TITLE: GP0029, B-52 EGRESS SYSTEM MAINTENANCE GROUP SIZE: 30 PERCENT OF SAMPLE: 5% PREDOMINANT GRADE: E-5/E-4 AVERAGE TICF: 75 MONTHS

AVERAGE TAFMS: 82 MONTHS

	ESENTATIVE TASKS	PERCENT MEMBERS
REPRE	SENTATIVE TASKS	PERFORMING
K541	REMOVE OR INSTALL B-52 ESCAPE HATCHES RAISE OR LOWER B-52 EJECTION SEATS INSPECT B-52 HATCH COMPONENTS SYNCHRONIZE B-52 SEAT-TILT OR HORIZONTAL ACTUATORS PERFORM OPERATIONAL CHECKS OF SEAT ACTUATORS INSPECT BALLISTIC GAS HOSES REMOVE OR INSTALL B-52 DOWNWARD EJECTIONS SEATS PERFORM OPERATIONAL CHECKS OF B-52 HATCH UNLOCK-WARNING- LIGHT SYSTEMS ADJUST INERTIA REELS, LINKAGES, OR CONTROLS ARM OR DEARM EJECTION SYSTEMS TROUBLESHOOT B-52 HATCH WARNING-LIGHT SYSTEMS ADJUST B-52 HATCH LATCHES PERFORM OPERATIONAL CHECKS OF B-52 HATCH SYSTEMS MAKE ENTRIES ON AFTO FORMS 350 (REP ITEM PROCESSING TAG) ADJUST HATCH WARNING MICRO-SWITCHES REMOVE OR INSTALL B-52 LEG-GUARD THRUSTERS MAKE ENTRIES ON AFTO FORMS 781A (MAINTENANCE DISCREPANCY AND WORK DOCUMENT) REMOVE OR INSTALL SEAT POSITIONING ACTUATORS TROUBLESHOOT B-52 HATCH MECHANICAL COMPONENTS ADJUST EJECTION SEAT COMPONENTS OR LINKAGES PERFORM PERIODIC INSPECTIONS ON EGRESS SYSTEMS REMOVE OR INSTALL SEAT POSITION SEAT SYSTEMS REMOVE OR INSTALL EJECTION SEAT ROTARY ACTUATORS REFORM OPERATIONAL CHECKS OF B-52 EJECTION SEAT MECHANISMS PERFORM AERODYNAMIC SEALING OF B-52 HATCH LIFTERS LUBRICATE EJECTION SEAT LI	100
K537	RAISE OR LOWER B-52 EJECTION SEATS	97
K532	INSPECT B-52 HATCH COMPONENTS	97
K550	SYNCHRONIZE B-52 SEAT-TILT OR HORIZONTAL ACTUATORS	97
G264	PERFORM OPERATIONAL CHECKS OF SEAT ACTUATORS	93
G219	INSPECT BALLISTIC GAS HOSES	93
K539	REMOVE OR INSTALL B-52 DOWNWARD EJECTIONS SEATS	93
K536	PERFORM OPERATIONAL CHECKS OF B-52 HATCH UNLOCK-WARNING-	
	LIGHT SYSTEMS	93
G209	ADJUST INERTIA REELS, LINKAGES, OR CONTROLS	93
G210	ARM OR DEARM EJECTION SYSTEMS	90
K552	TROUBLESHOOT B-52 HATCH WARNING-LIGHT SYSTEMS	90
K529	ADJUST B-52 HATCH LATCHES	90
K535	PERFORM OPERATIONAL CHECKS OF B-52 HATCH SYSTEMS	87
E125	MAKE ENTRIES ON AFTO FORMS 350 (REP ITEM PROCESSING TAG)	87
K530	ADJUST HATCH WARNING MICRO-SWITCHES	87
K545	REMOVE OR INSTALL B-52 LEG-GUARD THRUSTERS	87
E126	MAKE ENTRIES ON AFTO FORMS 781A (MAINTENANCE DISCREPANCY	
	AND WORK DOCUMENT)	83
G294	REMOVE OR INSTALL SEAT POSITIONING ACTUATORS	83
K551	TROUBLESHOOT B-52 HATCH MECHANICAL COMPONENTS	83
G207	ADJUST EJECTION SEAT COMPONENTS OR LINKAGES	83
G266	PERFORM PERIODIC INSPECTIONS ON EGRESS SYSTEMS	80
G293	REMOVE OR INSTALL INERTIA REELS, LINKAGES, CABLES,	
	STRAPS, OR CONTROLS	80
G290	REMOVE OR INSTALL EJECTION SEAT ROTARY ACTUATORS	80
G282	REMOVE OR INSTALL EJECTION SEAT CATAPULTS	80
K548	REMOVE OR INSTALL B-52 UPWARD EJECTION SEATS	77
G258	PERFORM FUNCTIONAL CHECKS OF INERTIA REELS	77
G235	INSPECT EJECTION SEAT HEAD-RESTS	77
G253	PERFORM CORROSION CONTROL ON AIRCREW EGRESS SYSTEMS	73
K534	PERFORM OPERATIONAL CHECKS OF B-52 EJECTION SEAT	
	MECHANISMS	73
K533	PERFORM AERODYNAMIC SEALING OF B-52 HATCH LIFTERS	67
G248	LUBRICATE EJECTION SEAT LINKAGE OR COMPONENTS	63

TABLE IV

GROUP ID NUMBER AND TITLE: ST0118, U-2/TR-1 EGRESS SYSTEMS MAINTENANCE

GROUP SIZE: 9

PERCENT OF SAMPLE: 2% AVERAGE TICF: 97 MONTHS

PREDOMINANT GRADE: E-4 AVERAGE TAFMS: 99 MONTHS

REPRE	SENTATIVE TASKS	PERCENT MEMBERS PERFORMING
G219	REMOVE OR INSTALL EJECTION SEAT CATAPULTS INSPECT BALLISTIC GAS HOSES	100 100
G25/	PERFORM FUNCTIONAL CHECKS OF EJECTION SEAT LINKAGES, SUCH AS D-RINGS OR EJECTION CONTROL HANDLES	100
G284		100
G292	REMOVE OR INSTALL EJECTION SYSTEM MECHANICAL- OR PRESSURE-	
	OPERATED INITIATORS	100
	PERFORM CORROSION CONTROL ON AIRCREW EGRESS SYSTEMS	100
E124	MAKE ENTRIES ON AFTO FORMS 349 (MAINTENANCE DATA COLLECTION	100
E126	RECORD) MAKE ENTRIES ON AFTO FORMS 781A (MAINTENANCE DISCREPANCY	100
L120	AND WORK DOCUMENT)	100
G262	PERFORM OPERATIONAL CHECKS OF LAP-BELT RELEASE MECHANISMS	100
G236	INSPECT EJECTION SEAT LAP-BELTS	100
		100
G211		100
G283	REMOVE OR INSTALL EJECTION SEAT DROGUE GUNS REMOVE OR INSTALL EJECTION SEAT HEAD-RESTS, BACK-RESTS, LEG-RESTS, OR ARM-REST PADS	100
G287	REMOVE OR INSTALL EJECTION SEAT HEAD-RESTS, BACK-RESTS,	100
G276		100
G270	CABLES	100
G234	INSPECT EJECTION SEAT FRAMES	89
G228		63
	EXPLOSIVE PANELS OR LINES	89
G288	REMOVE OR INSTALL EJECTION SEAT LAP-BELTS INSPECT CANOPY EXTERNAL OR INTERNAL JETTISON CABLES REMOVE OR INSTALL EGRESS SYSTEMS LINES, TUBES, OR HOSES	89
G221	INSPECT CANOPY EXTERNAL OR INTERNAL JETTISON CABLES	89
G281	REMOVE OR INSTALL EGRESS SYSTEMS LINES, TUBES, OR HOSES	89
0071	RESTRAINT MECHANISMS	78
G277	REMOVE OF INSTALL CANODA CASTEMS CHECK TATALOES	78 78
G271	DIDGE ECDECS SASTEMS LINES UD MUSES	78 67
G290	REMOVE OR INSTALL FIRETION SEAT DOTADY ACTUATORS	67
G220	RESTRAINT MECHANISMS REMOVE OR INSTALL ACTUATORS OR BALLISTIC REMOVERS REMOVE OR INSTALL CANOPY SYSTEMS CHECK-VALVES PURGE EGRESS SYSTEMS LINES OR HOSES REMOVE OR INSTALL EJECTION SEAT ROTARY ACTUATORS INSPECT CANOPY CHECK-VALVES	56
	The second of the second secon	

TABLE V

GROUP ID NUMBER AND TITLE: ST0128, T/A-37 AND T-38 EGRESS SYSTEMS MAINTENANCE

GROUP SIZE: 5
PREDOMINANT GRADE: E-4
AVERAGE TAFMS: 91 MONTHS PERCENT OF SAMPLE: 1%

AVERAGE TICF: 83 MONTHS

	ESENTATIVE TASKS	PERCENT MEMBERS
REPRE	ESENTATIVE TASKS	PERFORMING
G210	ARM OR DEARM EJECTION SYSTEMS MAKE ENTRIES ON AFTO FORMS 781A (MAINTENANCE DISCREPANCY	100
E126	MAKE ENTRIES ON AFTO FORMS 781A (MAINTENANCE DISCREPANCY	
	AND WUKK DUCUMEN!)	100
6219	INSPECT BALLISTIC GAS HOSES INSPECT EJECTION SEAT PARACHUTE OR DROGUE-CHUTE HARNESSES,	100
GZ3 3	CASES, OR LINES	100
G236	CASES, OR LINES INSPECT EJECTION SEAT LAP-BELTS PERFORM FUNCTIONAL CHECKS OR INERTIA REELS INSPECT EJECTION SEAT POSITIONING ACTUATORS PERFORM FUNCTIONAL CHECKS OF EJECTION SEAT LINKAGES, SUCH	100
G258	PERFORM FUNCTIONAL CHECKS OR INFRITA REFLS	100
G240	INSPECT EJECTION SEAT POSITIONING ACTUATORS	100
G257	PERFORM FUNCTIONAL CHECKS OF EJECTION SEAT LINKAGES, SUCH	
	AS D-RINGS OR EJECTION CONTROL HANDLES	100
G263	AS D-RINGS OR EJECTION CONTROL HANDLES PERFORM OPERATIONAL CHECKS OF LEG GUARDS, BRACES, OR RESTRAINT MECHANISMS PERFORM CORROSION CONTROL ON AIRCREW EGRESS SYSTEMS ADJUST EJECTION SEAT COMPONENTS OR LINKAGES	
	RESTRAINT MECHANISMS	100
G253	PERFORM CORROSION CONTROL ON AIRCREW EGRESS SYSTEMS	100
G207	ADJUST EJECTION SEAT COMPONENTS OR LINKAGES	100
G262	PERFORM OPERATIONAL CHECKS OF LAP-BELT RELEASE MECHANISMS	100
02/4	REMOVE UK INSTALL CANOPIES	100
MEO2	PERFURM FUNCTIONAL CHECKS OF CANOPY SYSTEMS	100
6284	DEMOVE OF INSTALL EJECTION SEAT DROCHE-CHITES	100
G281	DEMOVE ON INSTALL EDECTION SEAT DROBUE-CHOIES	100
G288	PEMOVE OR INSTALL EDRESS STATEMS LINES, TUBES, OR HUSES	100
G282	REMOVE OR INSTALL EXECTION SEAT CATADULES	100
G292	REMOVE OR INSTALL EJECTION SYSTEM MECHANICAL - OR	100
	ADJUST EJECTION SEAT COMPONENTS OR LINKAGES PERFORM OPERATIONAL CHECKS OF LAP-BELT RELEASE MECHANISMS REMOVE OR INSTALL CANOPIES PERFORM FUNCTIONAL CHECKS OF CANOPY SYSTEMS REMOVE OR INSTALL T-37 EJECTION SEATS REMOVE OR INSTALL EJECTION SEAT DROGUE-CHUTES REMOVE OR INSTALL EGRESS SYSTEMS LINES, TUBES, OR HOSES REMOVE OR INSTALL EJECTION SEAT LAP-BELTS REMOVE OR INSTALL EJECTION SEAT CATAPULTS REMOVE OR INSTALL EJECTION SYSTEM MECHANICAL- OR PRESSURE-OPERATED INITIATORS ADJUST INERTIA REELS, LINKAGES, OR CONTROLS PEMOVE OR INSTALL INERTIA BEELS, LINKAGES, CAPLES STRAPS	100
G209	ADJUST INERTIA REELS, LINKAGES, OR CONTROLS	100
G293	REMOVE OR INSTALL INERTIA REELS, LINKAGES, CABLES, STRAPS,	
	OR CONTROLS	100
G283	REMOVE OR INSTALL EJECTION SEAT DROGUE GUNS	100
L571	REMOVE OR INSTALL T-38 EJECTION SEATS	80
L569	REMOVE OR INSTALL T-38 DROGUE-CHUTE HARNESSES	80
	REMOVE OR INSTALL T-38 CANOPY THRUSTERS	80
M587	REMOVE OR INSTALL T-37 OR A-37 CANOPY THRUSTERS	80
M591	OR CONTROLS REMOVE OR INSTALL EJECTION SEAT DROGUE GUNS REMOVE OR INSTALL T-38 EJECTION SEATS REMOVE OR INSTALL T-38 DROGUE-CHUTE HARNESSES REMOVE OR INSTALL T-38 CANOPY THRUSTERS REMOVE OR INSTALL T-37 OR A-37 CANOPY THRUSTERS REMOVE OR INSTALL T-37 OR A-37 EJECTION SEAT LEG-BRACES	80

TABLE VI

GROUP ID NUMBER AND TITLE: ST0049, F-111 MODULE EGRESS SYSTEM MAINTENANCE

GROUP SIZE: 27
PREDOMINANT GRADE: E-5/E-3
PERCENT OF SAMPLE: 5%
AVERAGE TICF: 103 MONT

AVERAGE TICF: 103 MONTHS

AVERAGE TAFMS: 118 MONTHS

		PERCENT MEMBERS
REPRE	SENTATIVE TASKS	
3475	INSPECT BOOSTER TIPS REMOVE OR INSTALL MODULE RECOVERY PARACHUTES REMOVE OR INSTALL MODULE RECOVERY PARACHUTE CATAPULTS REMOVE OR INSTALL MODULE FLOTATION BAGS REMOVE OR INSTALL BILGE PUMPS REMOVE OR INSTALL AUXILIARY FLOTATION BAGS REMOVE OR INSTALL MODULE SECONDARY-CONTROL GUILLOTINES INSPECT MODULE PRESSURE-SOURCE BOTTLES INSPECT MODULE FLOTATION BAGS INSPECT MODULE FLEXIBLE LINEAR-SHAPED-CHARGES (FLSCs) INSPECT BILGE PUMPS REMOVE OR INSTALL MODULE FLSCs INSPECT MODULE IMPACT ATTENUATION PANELS REMOVE OR INSTALL MODULE COUNTERPOISES REMOVE OR INSTALL MODULE STABILIZATION BRAKE PARACHUTES REMOVE OR INSTALL MODULE NITROGEN FLOTATION BOTTLES REMOVE OR INSTALL MODULE EMERGENCY RADIO BEACONS INSPECT COUNTERPOISES REMOVE OR INSTALL MODULE INERTIA REEL ASSEMBLIES REMOVE OR INSTALL MODULE IMPACT ATTENUATOR BAGS ADJUST COUNTERPOISE LINKAGES REMOVE OR INSTALL MODULE IMPACT ATTENUATION PNEUMATIC	100
J4/5	INSPECT BOOSTER TIPS	100
J513	REMOVE OR INSTALL MODULE RECOVERY PARACHUTES	100
J512	REMOVE OR INSTALL MODULE RECOVERY PARACHUTE CATAPULIS	100
J504	REMOVE OR INSTALL MODULE FLUTATION BAGS	100
J499	REMOVE OR INSTALL BILGE PUMPS	100
J494	REMOVE OR INSTALL AUXILIARY FLOTATION BAGS	100
J518	REMOVE OR INSTALL MODULE SECONDARY-CONTROL GUILLUTINES	100
J482	INSPECT MODULE PRESSURE-SOURCE BUTTLES	96
J4/8	INSPECT MODULE FLOTATION BAGS	96
J4//	INSPECT MODULE FLEXIBLE LINEAR-SHAPED-CHARGES (FLSCS)	96
J4/4	INSPECT BILGE PUMPS	96
J505	KEMUVE UK INSTALL MUDULE FLOUS	36
J480	INSPECT MUDULE IMPACT ATTENUATION PANELS	96
7201	REMOVE OR INSTALL MODULE COUNTERPOISES	96
7213	REMOVE OR INSTALL MODULE STABILIZATION BRAKE PARACHUTES	96
7211	REMOVE OR INSTALL MODULE NITROGEN FLOTATION BUTTLES	93
J503	KEMOVE OK INSTALL MODULE EMERGENCY KADIO BEACONS	93
J4/6	INSPECT COMMERCATION OF THE THE TABLE ACCENDING	93
J509	REMOVE OR INSTALL MODULE INERTIA REEL ASSEMBLIES	93
J508	REMOVE OK INSTALL MODULE IMPACT ATTENUATUR BAGS	93
J469	ADJUST CUUNTERPUISE LINKAGES	93
J507	REMOVE OR INSTALL MODULE IMPACT ATTENUATION PREUMATIC	02
0005	KEGULATUKS	93
G295	KEMUVE UK INSTALL SMUCS	89
G245	INSPECT SHIELDED MILD DETUNATION CORDS (SMUCS)	89
£126	MAKE ENTRIES UN AFTU FURMS /81A (MAINTENANCE DISCREPANCY	00
1400	AND WURK DUCUMENT)	89
J492	PERFORM OPERATIONAL CHECKS OF MODULE COUNTERPOISES	89
J483	INSPECT MODULE RECOVERY PARACHUTE CATAPULIS	89
G258	PERFORM FUNCTIONAL CHECKS OF INERTIA REELS	85
J491	OHMS CHECK EMERGENCY RADIO BEACON ANTENNAS	78
J525	REPAIR BILGE PUMPS	78
J522	REMOVE OR INSTALL PRESSURE-SOURCE BOTTLE CARTRIDGES	74
G210	REMOVE OR INSTALL MODULE IMPACT ATTENUATOR BAGS ADJUST COUNTERPOISE LINKAGES REMOVE OR INSTALL MODULE IMPACT ATTENUATION PNEUMATIC REGULATORS REMOVE OR INSTALL SMDCs INSPECT SHIELDED MILD DETONATION CORDS (SMDCs) MAKE ENTRIES ON AFTO FORMS 781A (MAINTENANCE DISCREPANCY AND WORK DOCUMENT) PERFORM OPERATIONAL CHECKS OF MODULE COUNTERPOISES INSPECT MODULE RECOVERY PARACHUTE CATAPULTS PERFORM FUNCTIONAL CHECKS OF INERTIA REELS OHMS CHECK EMERGENCY RADIO BEACON ANTENNAS REPAIR BILGE PUMPS REMOVE OR INSTALL PRESSURE-SOURCE BOTTLE CARTRIDGES ARM OR DEARM EJECTION SYSTEMS	70

TABLE VII

GROUP ID NUMBER AND TITLE: ST0064, FIRST-LINE SUPERVISION

GROUP SIZE: 100 PERCENT OF SAMPLE: 18%
PREDOMINANT GRADE: E-6/E-7 AVERAGE TICF: 161 MONTHS
AVERAGE TAFMS: 170 MONTHS PERCENT SUPERVISING: 93%

	ESENTATIVE TASKS	PERCENT
REPRE	SENTATIVE TASKS	PERFORMING
	MAKE ENTRIES ON AFTO FORMS 781A (MAINTENANCE DISCREPANCY AND WORK DOCUMENT) MAKE ENTRIES ON AF FORMS 2005 (ISSUE/TURN IN REQUEST) MAKE ENTRIES ON AFTO FORMS 350 (REP ITEM PROCESSING TAG) ADVISE MANAGEMENT PERSONNEL ON EGRESS SYSTEMS MAINTENANCE ACTIVITIES MAKE ENTRIES ON AF FORMS 2413 (SUPPLY CONTROL LOG) SUPERVISE AIRCREW EGRESS SYSTEMS MECHANICS (AFSC 45452) COUNSEL PERSONNEL ON PERSONAL OR MILITARY-RELATED PROBLEMS CONDUCT PERFORMANCE FEEDBACK WORKSHEET (PFW) SESSIONS TRANSPORT EGRESS SYSTEMS EXPLOSIVE COMPONENTS INVENTORY EQUIPMENT, TOOLS, OR SUPPLIES INSPECT EGRESS SHOP EXPLOSIVES STORAGE FACILITIES INSPECT EJECTION SEAT HEAD-RESTS PERFORM PRODUCTION INSPECTION DUTIES (RED X) DETERMINE WORK PRIORITIES MAKE ENTRIES ON TOOL INVENTORY FORMS ARM OR DEARM EJECTION SYSTEMS REVIEW CORE AUTOMATED MAINTENANCE SYSTEM (CAMS) PRODUCTS	
E126	MAKE ENTRIES ON AFTO FORMS 781A (MAINTENANCE DISCREPANCY	
	AND WORK DOCUMENT)	96
E111	MAKE ENTRIES ON AF FORMS 2005 (ISSUE/TURN IN REQUEST)	93
E125	MAKE ENTRIES ON AFTO FORMS 350 (REP ITEM PROCESSING TAG)	93
A1	ADVISE MANAGEMENT PERSONNEL ON EGRESS SYSTEMS MAINTENANCE	
	ACTIVITIES	92
E113	MAKE ENTRIES ON AF FORMS 2413 (SUPPLY CONTROL LOG)	92
B41	SUPERVISE AIRCREW EGRESS SYSTEMS MECHANICS (AFSC 45452)	91
B25	COUNSEL PERSONNEL ON PERSONAL OR MILITARY-RELATED PROBLEMS	91
C47	CONDUCT PERFORMANCE FEEDBACK WORKSHEET (PFW) SESSIONS	91
G299	TRANSPORT EGRESS SYSTEMS EXPLOSIVE COMPONENTS	91
B39	INVENTORY EQUIPMENT, TOOLS, OR SUPPLIES	90
G226	INSPECT EGRESS SHOP EXPLOSIVES STORAGE FACILITIES	90
G235	INSPECT EJECTION SEAT HEAD-RESTS	9 0
G267	PERFORM PRODUCTION INSPECTION DUTIES (RED X)	89
A6	DETERMINE WORK PRIORITIES	89
E140	MAKE ENTRIES ON TOOL INVENTORY FORMS	89
G210	ARM OR DEARM EJECTION SYSTEMS	89
E148	REVIEW CORE AUTOMATED MAINTENANCE SYSTEM (CAMS) PRODUCTS	88
G266	PERFORM PERIODIC INSPECTIONS ON EGRESS SYSTEMS	88
G227	INSPECT EGRESS SHOP SUPPORT EQUIPMENT	88
E149	REVIEW DUE-IN FROM MAINTENANCE LISTINGS (D23s)	88
G258	PERFORM FUNCTIONAL CHECKS OF INERTIA REELS	88
C69	WRITE EPRs	85
G253	PERFORM CORROSION CONTROL ON AIRCREW EGRESS SYSTEMS	84
G282	REMOVE OR INSTALL EJECTION SEAT CATAPULTS	84
C66	PERFORM SECTION OR SHOP SAFETY INSPECTIONS	82
G294	REMOVE OR INSTALL SEAT POSITIONING ACTUATORS	79
D75	CONDUCT OJT	76
G288	REMOVE OR INSTALL EJECTION SEAT LAP-BELTS	75
G281	REMOVE OR INSTALL EGRESS SYSTEMS LINES, TUBES, OR HOSES	74
G284	MAKE ENTRIES ON TOOL INVENTORY FORMS ARM OR DEARM EJECTION SYSTEMS REVIEW CORE AUTOMATED MAINTENANCE SYSTEM (CAMS) PRODUCTS PERFORM PERIODIC INSPECTIONS ON EGRESS SYSTEMS INSPECT EGRESS SHOP SUPPORT EQUIPMENT REVIEW DUE-IN FROM MAINTENANCE LISTINGS (D23s) PERFORM FUNCTIONAL CHECKS OF INERTIA REELS WRITE EPRS PERFORM CORROSION CONTROL ON AIRCREW EGRESS SYSTEMS REMOVE OR INSTALL EJECTION SEAT CATAPULTS PERFORM SECTION OR SHOP SAFETY INSPECTIONS REMOVE OR INSTALL SEAT POSITIONING ACTUATORS CONDUCT OJT REMOVE OR INSTALL EJECTION SEAT LAP-BELTS REMOVE OR INSTALL EJECTION SEAT LAP-BELTS REMOVE OR INSTALL EJECTION SEAT DROGUE-CHUTES REMOVE OR INSTALL EJECTION SEAT DROGUE-CHUTES REMOVE OR INSTALL ACTUATORS OR BALLISTIC REMOVERS REMOVE OR INSTALL ACTUATORS OR BALLISTIC REMOVERS REMOVE OR INSTALL ACTUATORS OR BALLISTIC REMOVERS REMOVE OR INSTALL ACES II ENVIRONMENTAL SENSORS	71
G271	REMOVE OR INSTALL ACTUATORS OR BALLISTIC REMOVERS	62
H368	REMOVE OR INSTALL ACES II ENVIRONMENTAL SENSORS	59

TABLE VIII

GROUP ID NUMBER AND TITLE: ST0058, QUALITY ASSURANCE

GROUP SIZE: 6 PERCENT OF SAMPLE: 1% AVERAGE TICF: 178 MONTHS

AVERAGE TAFMS: 188 MONTHS

	MEMBERS
REPRESENTATIVE TASKS	PERFORMING
ACCO THEORET CAPATION CELT DADACHUTE OR DROOME CHUTE HARNESSES	
G239 INSPECT EJECTION SEAT PARACHUTE OR DROGUE-CHUTE HARNESSES, CASES, OR LINES G236 INSPECT EJECTION SEAT LAP-BELTS G231 INSPECT EJECTION SEAT DROGUE GUNS G234 INSPECT EJECTION SEAT FRAMES G233 INSPECT EJECTION SEAT EMERGENCY OXYGEN SYSTEMS G235 INSPECT EJECTION SEAT HEAD-RESTS	100
CASES, OR LINES C236 INSPECT EJECTION SEAT LAD-RELTS	100
G231 INSPECT EJECTION SEAT DROGUE GUNS	100
G234 INSPECT EJECTION SEAT FRAMES	100
G233 INSPECT EJECTION SEAT EMERGENCY OXYGEN SYSTEMS	100
G235 INSPECT EJECTION SEAT HEAD-RESTS	100
- 0000 THEORET CIECTION SELT EMEDOEMEV HADNESS DELEASE MECHANISMS	100
H315 INSPECT ACES II SEAT SLINGS	100
G219 INSPECT BALLISTIC GAS HOSES	100
H308 INSPECT ACES II EJECTION-CONTROL SAFETY LEVERS	83
H30/ INSPECT ACES II DROGUE SEVERANCE CUTTERS	83
M313 INSPECT CORECE CHOR EVELOCIVES STORAGE FACILITIES	03 22
H315 INSPECT ACES II SEAT SLINGS G219 INSPECT ACES II SEAT SLINGS H308 INSPECT ACES II EJECTION-CONTROL SAFETY LEVERS H307 INSPECT ACES II DROGUE SEVERANCE CUTTERS H313 INSPECT ACES II RECOVERY PARACHUTES G226 INSPECT EGRESS SHOP EXPLOSIVES STORAGE FACILITIES G238 INSPECT EJECTION SEAT LINKAGES	83
H310 INSPECT ACES IT EMERGENCY MANUAL CHUTE DEPLOYMENT SYSTEMS	83
H311 INSPECT ACES II ENVIRONMENTAL SENSORS	83
G227 INSPECT EGRESS SHOP EQUIPMENT	83
E165 WRITE CORRESPONDENCE	83
G240 INSPECT EJECTION SEAT POSITIONING ACTUATORS	83
G268 PERFORM QUALITY INSPECTIONS ON EGRESS SYSTEMS MAINTENANCE	67
C45 ANALYZE EGRESS SYSTEMS MAINTENANCE REPORTS	67
C50 EVALUATE INSPECTION REPORTS OR PROCEDURES	67
G225 PERFORM EGRESS SYSTEMS FINAL INSPECTIONS	67
E153 REVIEW GROUND SAFETY REPORTS	67
E152 REVIEW FLIGHT SAFETY REPORTS	67
E151 KEVIEW EGKESS SHUP ACTIVITY KEPUKIS	6/
G226 INSPECT EGRESS SHOP EXPLOSIVES STORAGE FACILITIES G238 INSPECT EJECTION SEAT LINKAGES H310 INSPECT ACES II EMERGENCY MANUAL CHUTE DEPLOYMENT SYSTEMS H311 INSPECT ACES II ENVIRONMENTAL SENSORS G227 INSPECT EGRESS SHOP EQUIPMENT E165 WRITE CORRESPONDENCE G240 INSPECT EJECTION SEAT POSITIONING ACTUATORS G268 PERFORM QUALITY INSPECTIONS ON EGRESS SYSTEMS MAINTENANCE C45 ANALYZE EGRESS SYSTEMS MAINTENANCE REPORTS C50 EVALUATE INSPECTION REPORTS OR PROCEDURES G225 PERFORM EGRESS SYSTEMS FINAL INSPECTIONS E153 REVIEW GROUND SAFETY REPORTS E152 REVIEW FLIGHT SAFETY REPORTS E151 REVIEW EGRESS SHOP ACTIVITY REPORTS C54 EVALUATE PROCEDURES FOR STORAGE, INVENTORY, OR INSPECTION OF TOOLS, EQUIPMENT, OR SUPPLIES	67
P2A CONDICT STAFE MEETINGS OF RRIFEINGS	67
OF TOOLS, EQUIPMENT, OR SUPPLIES B24 CONDUCT STAFF MEETINGS OR BRIEFINGS E156 REVIEW MATERIAL DEFICIENCY REPORTS (MDRs) E162 REVIEW QUALITY DEFICIENCY REPORTS (QDRs) C56 EVALUATE SAFETY PROGRAMS	50
F162 REVIEW QUALITY DEFICIENCY REPORTS (ODRS)	50
C56 EVALUATE SAFETY PROGRAMS	50

TABLE IX

GROUP ID NUMBER AND TITLE: ST0027, TRAINING

GROUP SIZE: 6 PERCENT OF SAMPLE: 1%
PREDOMINANT GRADE: E-5 AVERAGE TICF: 83 MONTHS

AVERAGE TAFMS: 112 MONTHS

REPRE	SENTATIVE TASKS	PERCENT MEMBERS PERFORMING
D76	CONDUCT RESIDENT COURSE CLASSROOM TRAINING	83
D71	ADMINISTED TESTS	83
D80	DEMONSTRATE HOW TO LOCATE TECHNICAL INFORMATION	
B25	COUNSEL PERSONNEL ON PERSONAL OR MILITARY-RELATED PROBLEMS	83
D79	DEMONSTRATE HOW TO LOCATE TECHNICAL INFORMATION COUNSEL PERSONNEL ON PERSONAL OR MILITARY-RELATED PROBLEMS COUNSEL TRAINEES ON TRAINING PROGRESS EVALUATE PROGRESS OF RESIDENT COURSE STUDENTS	83
D90	COUNSEL TRAINEES ON TRAINING PROGRESS EVALUATE PROGRESS OF RESIDENT COURSE STUDENTS L'VELOP TRAINING AIDS INVENTORY EQUIPMENT, TOOLS, OR SUPPLIES WRITE TEST QUESTIONS MAINTAIN PUBLICATION OR TECHNICAL ORDER FILES MAINTAIN GENERAL SHOP DOCUMENTATION FILES CONDUCT SELE-INSPECTION PROGRAMS	67
D85	L VELOP TRAINING AIDS	67
B39	INVENTORY EQUIPMENT, TOOLS, OR SUPPLIES	67
D97	WRITE TEST QUESTIONS	67
E107	MAINTAIN PUBLICATION OR TECHNICAL ORDER FILES	50
E106	MAINTAIN GENERAL SHOP DOCUMENTATION FILES	50
C48	CONDUCT SELF-INSPECTION PROGRAMS	50
	MAKE ENTRIES ON TOOL INVENTORY FORMS	50
	INITIATE OR REVIEW RECORDS OF INDIVIDUAL COUNSELING FORMS	
E122	MAKE ENTRIES ON AFTO FORMS 244 (INDUSTRIAL/SUPPORT EQUIPMENT	
	RECORD)	50
D84	DEVELOP RESIDENT COURSE OR CAREER DEVELOPMENT COURSE (CDC) CURRICULUM MATERIALS MAKE ENTRIES ON AF FORMS 2413 (SUPPLY CONTROL LOG) MAINTAIN TRAINING RECORDS. CHARTS. OR GRAPHS	
	CURRICULUM MATERIALS	50
E113	MAKE ENTRIES ON AF FORMS 2413 (SUPPLY CONTROL LOG)	50
D92	MAINTAIN TRAINING RECORDS, CHARTS, OR GRAPHS	33
B28	DIRECT MAINTENANCE OF PUBLICATION OR TECHNICAL ORDER FILES	33
B38	INTERPRET POLICIES, DIRECTIVES, OR PROCEDURES FOR	
	SUBORDINATES	33
A13	DRAFT CHANGES TO PUBLICATION	33
D96	INTERPRET POLICIES, DIRECTIVES, OR PROCEDURES FOR SUBORDINATES DRAFT CHANGES TO PUBLICATION SELECT INDIVIDUALS FOR SPECIALIZED TRAINING CONDUCT STAFF MEETINGS OR BRIEFINGS	33
B24	CONDUCT STAFF MEETINGS OR BRIEFINGS	33

APPENDIX B

TABLES DISPLAYING DATA PERTAINING TO SPECIFIC BACKGROUND QUESTIONS

TABLE B1

OTHER AFSCs OR TEAMS AUGMENTED WHILE DEPLOYED FOR DESERT SHIELD OR DESERT STORM (PERCENT MEMBERS RESPONDING)

OTHER AFSCs OR TEAMS	1ST JOB (N=47)	1ST ENL (N=97)	DAFSC 45432 (N=37)	DAFSC 45452 (N=265)	DAFSC 45472 (N=255)	TOTAL SAMPLE (N=557)
NONE (NOT DEPLOYED) NONE (DEPLOYED, BUT DID NOT AUGMENT)	85 13	9	86 11	61 14	68 13	66 13
TACTICAL AIRCRAFT MAINTENANCE, AFSC 452X4 STRATEGIC AIRCRAFT MAINTENANCE, AFSC 457X0 AEROSPACE PROPULSION, AFSC 454X0 AEROSPACE GROUND EQUIPMENT, AFSC 454X1 AIRCRAFT FUEL SYSTEMS, AFSC 454X3 AIRCRAFT PNEUDRAULICS SYSTEMS, AFSC 454X4 FABRICATION AND PARACHUTES, AFSC 468X3 AIRCRAFT ARMAMENT SYSTEMS, AFSC 462X0 EXPLOSIVE ORDNANCE DISPOSAL, AFSC 464X0 MUNITIONS OPERATIONS, AFSC 465X0	00000000	10211203	00000000	7 0 11 2 0 1	₹200 × 4 × 100	№ 10 H 8 4 4 H 0 H
AIRCRAFT TOW TEAM AIRCRAFT FUELING OR DEFUELING TEAM AIRCRAFT BATTLE DAMAGE REPAIR TEAM CRASH RECOVERY TEAM END-OF-RUNWAY INSPECTION CREW LAUNCH OR RECOVERY CREW	00000	20 H O 5 B	00000	9 7 7 14	1.080/6	7 3 3 11

NOTE: Multiple responses possible

TABLE B2

PERCENTAGE OF TIME SPENT AUGMENTING TEAMS OR OTHER AFSCS DURING DESERT SHIELD OR DESERT STORM (PERCENT MEMBERS RESPONDING)

TIME SPENT AUGMENTING TEAMS OR OTHER AFSCS	1ST JOB (N=47)	1ST ENL (N=97)	DAFSC 45432 (N=37)	DAFSC 45452 (N=265)	DAFSC 45472 (N=255)	TOTAL SAMPLE (N=557)
NONE (NOT DEPLOYED)	81	77	84	09	99	64
NONE (DEPLOYED, BUT DID NOT AUGMENT)	13	10	11	15	14	14
LESS THAN 10 PERCENT	0	m	0	NO.	4	4
AT LEAST 10 PERCENT BUT LESS THAN 20	0	2	0	4	8	ო
AT LEAST 20 PERCENT BUT LESS THAN 30	0		0	4	ო	m
AT LEAST 30 PERCENT BUT LESS THAN 40	0	н	0	2	7	2
AT LEAST 40 PERCENT BUT LESS THAN 50	0	0	0	m	7	ო
50 PERCENT OR MORE	0	7	0	S	4	4
NO RESPONSE	9	4	ഹ	8	ო	m

TABLE B3

SATISFACTION WITH TRAINING RECEIVED FOR PERFORMANCE OF GENERAL AIRCRAFT MAINTENANCE TASKS (PERCENT MEMBERS RESPONDING)

	1ST	1ST	DAFSC	DAFSC	DAFSC	TOTAL
SATISFACTION RESPONSE	(N=47)	(N=97)	(N=37)	(N=265)	43472 (N=255)	(N=557)
DO NOT PERFORM GENERAL AIRCRAFT MAINTENANCE TASKS	40	40	41	37	47	42
VERY DISSATISFIED	8	4	0	m	S	4
SLIGHTLY DISSATISFIED	8	7	က	m	4	ო
NEITHER SATISFIED OR DISSATISFIED	7	7	က	12	13	12
SLIGHTLY SATISFIED	23	22	27	20	13	17
VERY SATISFIED	28	24	24	24	17	21
NO RESPONSE	က	-	7		-	1

TABLE 84

LENGTH OF TIME REQUIRED TO RECEIVE FTD CERTIFICATION TRAINING ON AIRCRAFT CURRENTLY MAINTAINED (PERCENT MEMBERS RESPONDING)

FIELD TRAINING DETACHMENT (FTD) CERTIFICATION TRAINING TIME RESPONSE	1ST JOB (N=47)	1ST ENL (N=97)	DAFSC 45432 (N=37)	DAFSC 45452 (N=265)	DAFSC 45472 (N=255)	TOTAL SAMPLE (N=557)
HAVE NOT YET RECEIVED FTD CERTIFICATION TRAINING	9	ဖ	7	7	7	7
LESS THAN 3 MONTHS	49	48	49	54	27	52
AT LEAST 3 MONTHS BUT LESS THAN 6	56	56	22	52	20	22
AT LEAST 6 MONTHS BUT LESS THAN 9	11	13	14	∞	ω	6
AT LEAST 9 MONTHS BUT LESS THAN 12	9	4	ភ	ю	8	7
12 MONTHS OR MORE	2		က	က	ß	4
NO RESPONSE	0	7	0	0	-	7